Pressure transmitters for absolute pressure aus series pressure, SITRANS P DS III with HART Measuring cell filling	Selection and Ordering data			Order No.			
Measuring cell filling cleaning Silicone oil normal 1 Inert liquid¹) grease-free to cleanliness level 2 Measuring span (min max.) 8.3 250 mbar a (0.12 3.62 psia) D 43 1300 mbar a (0.62 18.85 psia) F 1 30 bar a (1.4.5 435 psia) G 1 30 bar a (1.4.5 435 psia) H Wetted parts materials Seal diaphragm Process connection Stainless steel Stainless steel B Hastelloy Hastelloy C Version for diaphragm seal²) 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1 • Female thread ½-14 NPT • Stainless steel oval flange with process connection female thread ½-14 NPT • Mounting thread M12 to DIN 19213 • Mounting thread M12 to DIN 19213 • Mounting thread M12 to DIN 19213 • Male thread ½-14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting²) Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: • "Intrinsic safety, explosion-proof enclosure" (Ex ia + Ex d)* • "Explosion-proof (Ex d)*®) • "Explosion-proof (Ex d)*®) • "Explosion-protection (Ex ia + Ex d + Zone 1D/2D)* • "Ex nA/ic (Zone 2)*¹0) • FM + CSA, Type of protection: • "Intrinsic Safe und Explosion Proof (is + xp)*®) FElectrical connection/cable entry • Screwed gland M20x1.5 • Screwed gland M20x1.5 • Screwed gland M20x1.5 • Screwed gland M20x1.5	Pressure transmitters for absolute pressure aus		7 M F	7MF4233-			
Cleaning Silicone oil normal no	series pressure, SITRANS P DS III with HART				-	411	
Silicone oil Inert liquid¹) grease-free to cleanliness level 2 Measuring span (min max.) 8.3 250 mbar a (0.12 3.62 psia) D. 43 1300 mbar a (0.62 18.85 psia) G. 16 5 bar a (2.32 72.5 psia) G. 1 30 bar a (14.5 435 psia) H. Wetted parts materials Seal diaphragm Process connection Stainless steel Stainless steel Hastelloy Stainless steel B. Hastelloy Hastelloy Cyersion for diaphragm seal²) 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1	Measuring cell filling						
Inert liquid ¹⁾ grease-free to cleanliness level 2 Measuring span (min max.) 8.3 250 mbar a (0.12 3.62 psia) 43 1300 mbar a (0.62 18.85 psia) 0.16 5 bar a (2.32 72.5 psia) 1 30 bar a (14.5 435 psia) Wetted parts materials Seal diaphragm Process connection Stainless steel Stainless steel Hastelloy Stainless steel Hastelloy Hastelloy Version for diaphragm seai ^{2) 3) 4) 5) 6) Process connection Connection shank G½B to EN 837-1 • Female thread ½-14 NPT • Stainless steel oval flange with process connection female thread ½-14 NPT • Mounting thread M10 to DIN 19213 • Mounting thread M12 to DIN 19213 • Male thread M20 x 1.5 • Male thread ½-14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting⁷⁾ Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion-proof (Ex d)*⁸ • "Explosion-proof (Ex d)*⁸ • "Intrinsic safety (Ex ia)* • "Explosion-proof (Ex d)*⁸ • "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/ZD)*⁹ • "Ex nA/ic (Zone 2)*¹⁰⁾ • "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/ZD)*⁹⁾ • FM + CSA, Type of protection: • "Intrinsic Safety (Ex xia)* • With FM + CSA, Type of protection: • "Intrinsic Safe und Explosion Proof (is + xp)*⁸ Electrical connection/cable entry • Screwed gland M20x1.5 • Screwed gland M20x1.5}	Silicone oil	•	1				
Cleanliness level 2 Measuring span (min max.) 8.3 250 mbar a (0.12 3.62 psia) 43 1300 mbar a (0.62 18.85 psia) Cleanliness level 2 Metalogo mbar a (2.32 72.5 psia) Cleanliness steal (14.5 435 psia) Wetted parts materials Seal diaphragm Process connection Stainless steel Stainless steel Hastelloy Stainless steel Hastelloy Hastelloy Version for diaphragm seal ^{2) 3) 4) 5) 6) Process connection Connection shank G½B to EN 837-1 Female thread ½-14 NPT Stainless steel oval flange with process connection female thread ½-14 NPT Stainless steel oval flange with process connection female thread ½-18 NPT Mounting thread 7/16-20 UNF to EN 61518 Mounting thread M10 to DIN 19213 Male thread M20 x 1.5 Male thread M20 x 1.5 Male thread ½-14 NPT Mon-wetted parts materials Housing made of die-cast aluminium Housing stainless steel precision casting⁷) Version Standard versions International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex (a)** - "Explosion-proof (Ex (a)** - "Intrinsic safety, explosion-proof enclosure" (Ex ia + Ex d)** - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)** - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)** - "Intrinsic safety (Ex ia)" - "Intrinsic safety (Ex ia)" - "Intrinsic safety (Ex ia) + Ex a (ATEX) - "Intrinsic safety and flameproof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)** - "Intrinsic safety and flameproof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)** - "Intrinsic safety and flameproof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)** - "Intrinsic safety and flameproof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)** - "Intrinsic safety and flameproof enclosure and dust explosion protection (Ex ia+ Ex}							
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43 1300 mbar a (0.62 18.85 psia) 0.16 5 bar a (2.32 72.5 psia) 1 30 bar a (14.5 435 psia) Wetted parts materials Seal diaphragm Process connection Stainless steel Stainless steel Hastelloy Stainless steel Hastelloy Hastelloy Version for diaphragm seal ^{2) 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1 • Female thread ½-14 NPT • Stainless steel oval flange with process connection female thread ½-18 NPT • Mounting thread ¾-18 NPT • Mounting thread M10 to DIN 19213 • Male thread ½2 -14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting⁷⁾ Version • Standard version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion-proof (Ex d)** • "Explosion-proof (Ex d)** • "Intrinsic safety (Ex ia)* • "Explosion-proof (Ex d)** • "Ex nA/ic (Zone 2)** • "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)** • "FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: • "Intrinsic Safe und Explosion Proof (is + xp)** • Screwed gland M20 x1.5 • Screwed gland M20 x1.5}	Measuring span (min.						
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1 30 bar a (14.5 435 psia) Wetted parts materials Seal diaphragm Process connection Stainless steel Stainless steel B Hastelloy Stainless steel B Hastelloy Hastelloy C Version for diaphragm seal ^{2) 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1 • Female thread ½-14 NPT • Stainless steel oval flange with process connection female thread ¼-18 NPT - Mounting thread 7/₁₆₋₂0 UNF to EN 61518 - Mounting thread M10 to DIN 19213 - Mounting thread M10 to DIN 19213 - Male thread ½-14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting⁷⁾ Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)"⁸⁾ - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d) + Zone 1D/2D)*⁹⁾ • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)"⁸⁾ PICEIectrical connection/cable entry • Screwed gland M20x1.5 • Screwed gland M20x1.5}		. ,	-				
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Stainless steel Stainless steel Hastelloy Stainless steel Hastelloy Hastelloy Version for diaphragm seal ²⁾ 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1 • Female thread ½-14 NPT - Stainless steel oval flange with process connection female thread ¼-18 NPT - Mounting thread M10 to DIN 19213 - Mounting thread M12 to DIN 19213 • Male thread ½-14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting ⁷⁾ Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Ex plosion-proof (Ex d)* ⁸⁾ - "Ex nA/ic (Zone 2)* ¹⁰⁾ - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)* ⁹⁾ • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)* ⁸⁾ Electrical connection/cable entry • Screwed gland M20X1.5	•						
Hastelloy Stainless steel Hastelloy Hastelloy Version for diaphragm seal ^{2) 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1 • Female thread ½-14 NPT • Stainless steel oval flange with process connection female thread ½-18 NPT - Mounting thread 12 NPT - Mounting thread 14 NPT • Mounting thread M10 to DIN 19213 - Mounting thread M12 to DIN 19213 • Male thread ½-2 NPF • Male thread ½-14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)*8) - "Intrinsic safety, explosion-proof enclosure" ((Ex ia + Ex d)*3) - "Ex nA/ic (Zone 2)*10) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)*9 • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)*8 Electrical connection/cable entry • Screwed gland Pg 13.5¹¹) • Screwed gland M20x1.5 • Screwed gland ½-14 NPT A Standard versions B C C}		Stainless steel	Δ				
Version for diaphragm seal ^{2) (3) (4) (5) (6) Process connection Connection shank G½B to EN 837-1 Female thread ½-14 NPT Stainless steel oval flange with process connection female thread ½-14 NPT Mounting thread ¼-18 NPT Mounting thread M10 to DIN 19213 Mounting thread M12 to DIN 19213 Male thread M20 x 1.5 Male thread ½-14 NPT Non-wetted parts materials Housing made of die-cast aluminium Housing stainless steel precision casting⁷⁾ Version Standard versions International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: "Intrinsic safety (Ex ia)" "Explosion-proof (Ex d)"⁸⁾ "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d) (4) (2) (2) (2) (2) (2) (2) (2) (2) (2) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4}							
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• Connection shank G½B to EN 837-1 • Female thread ½-14 NPT • Stainless steel oval flange with process connection female thread ¼-18 NPT - Mounting thread M10 to DIN 19213 - Mounting thread M10 to DIN 19213 - Mounting thread M12 to DIN 19213 • Male thread M20 x 1.5 • Male thread ½-14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting ⁷⁾ Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)** - "Explosion-proof (Ex d)** - "Intrinsic safety, explosion-proof enclosure" (Ex ia + Ex d)* - "Ex nA/ic (Zone 2)** - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)** • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)** • Screwed gland Pg 13.5* Screwed gland M20x1.5 • Screwed gland M20x1.5 • Screwed gland M20x1.5 • Screwed gland ½-14 NPT		eal ^{<) 3) 4) 5) 6)}	Y				
• Female thread ½-14 NPT • Stainless steel oval flange with process connection female thread ¼-18 NPT - Mounting thread 7/ ₁₆ -20 UNF to EN 61518 - Mounting thread M10 to DIN 19213 - Mounting thread M12 to DIN 19213 • Male thread M20 x 1.5 • Male thread ½-14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting ⁷) Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)" ⁸) - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)" ⁹) - "Ex nA/ic (Zone 2)" ¹⁰) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)" ⁹) • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)" ⁸) FINTERIAL EXTERIAL EXTER		D . EN 007 4					
• Stainless steel oval flange with process connection female thread ¼-18 NPT - Mounting thread M10 to DIN 19213 - Mounting thread M12 to DIN 19213 - Mounting thread M12 to DIN 19213 • Male thread M20 x 1.5 • Male thread ½ -14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting 7) Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)"8) - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)"9) - "Ex nA/ic (Zone 2)"10) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)"9) • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)"8) • Screwed gland Pg 13.511) • Screwed gland M20X1.5 • Screwed gland ½-14 NPT 2 constants 2 connection casting 7 4 constants 2 connection casting 7 3 connection casting 7 4 connection casting 7 5 connection casting 7 5 connection casting 7 5 connection sating 7 6 connection casting 7 6 c							
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- Mounting thread M10 to DIN 19213 - Mounting thread M12 to DIN 19213 - Male thread M20 x 1.5 • Male thread M20 x 1.5 • Male thread ½ -14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting ⁷) Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)" - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)" - "Ex nA/ic (Zone 2)" - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)" • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)" • Screwed gland Pg 13.5 ¹¹) • Screwed gland M20x1.5 • Screwed gland ½-14 NPT	tion female thread 1/4-1	8 NPT					
- Mounting thread M12 to DIN 19213 • Male thread M20 x 1.5 • Male thread M20 x 1.5 • Male thread ½ -14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting ⁷) Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)"8) - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)"9) - "Ex nA/ic (Zone 2)"10) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)"9) • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)"8) Electrical connection/cable entry • Screwed gland M20x1.5 • Screwed gland ½-14 NPT C							
• Male thread M20 x 1.5 • Male thread ½ -14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting ⁷⁾ • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)" ⁸⁾ - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)" ⁹⁾ - "Ex nA/ic (Zone 2)" ¹⁰⁾ - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)" ⁹⁾ • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)" ⁸⁾ FIGURE 1.5 • Screwed gland M20x1.5 • Screwed gland M20x1.5 • Screwed gland ½-14 NPT							
Male thread ½ -14 NPT Non-wetted parts materials Housing made of die-cast aluminium Housing stainless steel precision casting ⁷⁾ Standard versions International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: "Intrinsic safety (Ex ia)" "Explosion-proof (Ex d)"8) "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)"9) "Ex nA/ic (Zone 2)"10) "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)"9) FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: "Intrinsic Safe und Explosion Proof (is + xp)"8) Electrical connection/cable entry Screwed gland M20x1.5 Screwed gland ½-14 NPT	J			-			
Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting ⁷¹ • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)" ⁸⁰ - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)" ⁹¹ - "Ex nA/ic (Zone 2)" ¹⁰⁾ - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)" ⁹¹ • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)" ⁸⁰ NC Electrical connection/cable entry • Screwed gland Pg 13.5 ¹¹⁾ • Screwed gland M20x1.5 • Screwed gland ½-14 NPT							
 Housing made of die-cast aluminium Housing stainless steel precision casting⁷) Version Standard versions International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)"⁸) - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)"⁹) - "Ex nA/ic (Zone 2)"¹⁰) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)"⁹) FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)"⁸) Screwed gland Pg 13.5¹¹) Screwed gland M20x1.5 Screwed gland ½-14 NPT 			-	۰			
 Housing stainless steel precision casting⁷) Version Standard versions International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)"⁸) - "Intrinsic safety, and flameproof enclosure" (Ex ia + Ex d)"⁹) - "Ex nA/ic (Zone 2)"¹⁰) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)"⁹) FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)"⁸) NC Electrical connection/cable entry Screwed gland Pg 13.5¹¹) A Screwed gland M20x1.5 Screwed gland ½-14 NPT 	•			0			
 Standard versions International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)"8) - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)"9) - "Ex nA/ic (Zone 2)"10) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)"9) FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)"8) NC Electrical connection/cable entry Screwed gland Pg 13.5¹¹) Screwed gland M20x1.5 Screwed gland ½-14 NPT 							
 International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)"8) - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)"9) - "Ex nA/ic (Zone 2)"10) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)"9) FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)"8) NC Electrical connection/cable entry Screwed gland Pg 13.5¹¹) Screwed gland M20x1.5 Screwed gland ½-14 NPT 	Version						
documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)"8) - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)"9) - "Ex nA/ic (Zone 2)"10) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)"9) FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)"8) With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)"8) NC Electrical connection/cable entry Screwed gland Pg 13.5 ¹¹) Screwed gland M20x1.5 Screwed gland ½-14 NPT C							
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- "Ex nA/ic (Zone 2)" ID) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)" S • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)" NC Electrical connection/cable entry • Screwed gland Pg 13.511) • Screwed gland M20x1.5 • Screwed gland ½-14 NPT	- "Intrinsic safety and i (Ex ia + Ex d)" ⁹⁾	nameproof enclosure				P	
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• Screwed gland ½-14 NPT C							
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 Han 7D plug (plastic housing) incl. mating connector¹¹ 	 nan / D plug (plastic h connector¹¹⁾ 	iousing) inci. mating				U	
• M12 connectors (stainless steel) 12) 13) 14)	 M12 connectors (stain 	less steel) 12) 13) 14)				F	

Selection and Ordering data

Pressure transmitters for absolute pressure aus series pressure, SITRANS P DS III with HART

Display

• Without display

• Without visible display (display concealed, setting: mA)

• With visible display

• With visible display

Available ex stock

Power supply units see Chap. 7 "Supplementary Components".

Included in delivery of the device:

- Brief instructions (Leporello)
- CD-ROM with detailed documentation

 with customer-specific display (setting as specified, Order Code "Y21" or "Y22" required)

- 1) For oxygen application, add Order code E10.
- Version 7MF4233-1DY... only up to max. span 200 mbar a (80 inH₂O a).
 When the manufacture's certificate (calibration certificate) has to be
- ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here. If the acceptance test certificate 3.1 is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.
- 4) If the acceptance test certificate 3.1 is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.
- 5) The diaphragm seal is to be specified with a separate order number and must be included with the tranmitter order number, for example 7MF423.-.Y...... and 7MF4900-1.....B
- 6) The standard measuring cell filling for configurations with remote seals (Y) is silicone oil.
- 7) Not in conjunction with Electrical connection "Screwed gland Pg 13.5" and "Han7D plug".
- 8) Without cable gland, with blanking plug.
- 9) With enclosed cable gland Ex ia and blanking plug.
- ¹⁰⁾Configurations with HAN and M12 connectors are only available in Ex ic.
- 11) Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".
- ¹²⁾M12 delivered without cable socket
- ¹³⁾Not available with protection type "Ex d" (optiones D, P, N and R)
- ¹⁴⁾Not with protection types "Explosion-proof" and "Ex nA", "Intrinsic safe" and "Explosion proof".

For absolute pressure (from the gauge pressure series) SITRANS P DS III with PROFIBUS PA (PA) SITRANS P DS III with FOUNDATION Fieldbus (FF) Measuring cell filling Measuring cell cleaning Silicone oil normal 1 Inert liquid¹) grease-free to cleanliness level 2 Nominal measuring range 250 mbar a (3.62 psia) G 30 bar a (72.5 psia) G 30 bar a (72.5 psia) G 30 bar a (435 psia) F 5 bar a (72.5 psia) G 30 bar a (435 psia) F 4 wetted parts materials Seal diaphragm Process connection Stainless steel Stainless steel A Hastelloy Stainless steel B Hastelloy B Hastelloy C Version as diaphragm seal (2) 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1 0 • Female thread ½-14 NPT 1 • Stainless steel oval flange with process connection female thread ½-18 NPT 1 • Mounting thread 7½-12 UNF to IEC 61518 2 • Mounting thread M10 to DIN 19213 3 • Mounting thread M12 to DIN 19213 4 • Male thread M2 \(2 \tau \tau \tau \tau \tau \tau \tau \tau	Selection and Ordering data		Order No.			
SITRANS P DS III with FOUNDATION Fieldbus (FF) Measuring cell filling Measuring cell cleaning Silicone oil normal 1 Inert liquid¹) grease-free to cleanliness level 2 Nominal measuring range 250 mbar a (3.62 psia) D 1300 mbar a (18.85 psia) F 5 bar a (72.5 psia) G 30 bar a (435 psia) H Wetted parts materials Seal diaphragm Process connection Stainless steel Stainless steel A Hastelloy Stainless steel B Hastelloy Hastelloy C C Version as diaphragm seal 2) 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1 0 0 • Female thread ½-14 NPT 1 1 1 • Stainless steel oval flange with process connection female thread ½-14 NPT 1 1 • Mounting thread M10 to DIN 19213 A 1 • Mounting thread M10 to DIN 19213 A 1 • Mounting thread M10 to DIN 19213 A 1 • Male thread M2 - 14 NPT 6 • Male thread M2 - 14 NPT 6 • Male thread M2 - 14 NPT 7 6 • Male thread M2 - 15 5 5 • Male thread M2 - 16 Size of C - 10 Size of C	For absolute pressure					
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S bar a (72.5 psia) 30 bar a (435 psia) Wetted parts materials Seal diaphragm Process connection Stainless steel Stainless steel Hastelloy Stainless steel Hastelloy Hastelloy Version as diaphragm seal 2) 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1 • Female thread ½-14 NPT • Stainless steel oval flange with process connection female thread ½-18 NPT - Mounting thread 7/16-20 UNF to IEC 61518 - Mounting thread M10 to DIN 19213 - Mounting thread M12 to DIN 19213 • Male thread ½-14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing made of die-cast aluminium • Housing stainless steel precision casting Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Ex pA/tic (Zone 2)" 9) - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)" (no for DS III FF) • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)" 7) Electrical connection/cable entry • Screwed gland M20 x 1.5	•	•	D			
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Seal diaphragm Process connection Stainless steel Stainless steel B Hastelloy Stainless steel B Hastelloy Hastelloy C Version as diaphragm seal 2) 3) 4) 5) 6) Process connection • Connection shank G½B to EN 837-1 • Stainless steel oval flange with process connection female thread ½-14 NPT • Stainless steel oval flange with process connection female thread ¼-18 NPT - Mounting thread M10 to DIN 19213 - Mounting thread M10 to DIN 19213 - Mounting thread M12 to DIN 19213 - Male thread M20 x 1.5 • Male thread ½-14 NPT Non-wetted parts materials • Housing made of die-cast aluminium • Housing stainless steel precision casting Version • Standard versions • International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)"7) - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)** - "Ex nA/ic (Zone 2)** - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)** - "Intrinsic Safety and flameproof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)** • FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)** • With FM + CSA, Type of protection: - "Intrinsic Safe und Explosion Proof (is + xp)** • Screwed gland M20 x 1.5 • Screwed gland M20 x 1.5 • Screwed gland M20 x 1.5	30 bar a	(435 psia)	Н			
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	· ·					
• M12 connectors (stainless steel) (stainless steel)	• Screwed gland ½-14	NP [
	• IVI 12 connectors (stair	iless steel)	-			

For absolute pressure (from the gauge pressure series)		
SITRANS P DS III with PROFIBUS PA (PA)	7 M F 4 2 3 4 -	
SITRANS P DS III with FOUNDATION Fieldbus (FF)	7 M F 4 2 3 5 -	
		1
Display		
Without display	C)
 Without visible display (display concealed, setting: mA) 	1	I
With visible display	6	ò
with customer-specific display	7	7

Order No.

Included in delivery of the device:

• Brief instructions (Leporello)

required)

Selection and Ordering data

- CD-ROM with detailed documentation
- 1) For oxygen application, add Order code E10.

(setting as specified, Order Code "Y21" or "Y22"

- 2) Version 7MF4233-1DY... only up to max. span 200 mbar a (2.9 psia).
- 3) When the manufacture's certificate (calibration certificate) has to be which the maintactures with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here.
- 4) If the acceptance test certificate 3.1.is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.
- 5) The diaphragm seal is to be specified with a separate order number and must be included with the tranmitter order number, for example 7MF423.-..Y..-.... and 7MF4900-1...-.B
- 6) The standard measuring cell filling for configurations with remote seals (Y) is silicone oil.
- 7) Without cable gland, with blanking plug.
- 8) With enclosed cable gland Ex ia and blanking plug.
- 9) Configurations with HAN and M12 connectors are only available in Ex ic.
- 10)M12 delivered without cable socket
- ¹¹⁾Not with protection types "Explosion-proof" and "Ex nA", "Intrinsic safe" and "Explosion proof".

Further designs Add "-Z" to Order No. and specify Order Code. Pressure transmitter with mounting bracket (2 shackles, 4 nuts, 4 U-plates, 1 angle) made of: Steel	Selection and Ordering data	Order	code		
Pressure transmitter with mounting bracket (2 shackles, 4 nuts, 4 U-plates, 1 angle) made of: Steel Stainless steel Plug Han 7D (metal, gray) Han 8U (instead of Han 7D) A31 A32 Han 8D (metal, gray) Han 8D (metal, gray) Han 8D (metal, gray) A33 Cable sockets for M12 connectors (stainless steel) Rating plate inscription (instead of German) English French B12 Spanish B13 V French Spanish B13 V Fressure units in inH ₂ 0 and/or psi Quality inspection certificate (Five-step factory calibration) to IEC 60770-2¹¹ Inspection certificate ² Acc. to EN 10204-3.1 Factory certificate C14 C20 Acc. to EN 10204-2.2 "Functional safety (SIL2)" certificate to IEC 61508 "Functional safety (SIL2/3)" certificate C20 V Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE D07 V V Degree of protection IP65/IP68 (Only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D Conju together with type of protection 'Intrinsic safety" (transmitter TMF4		Oraci		PA	FF
Dracket (2 shackles, 4 nuts, 4 U-plates, 1 angle) made of: Steel	Add "-Z" to Order No. and specify Order Code.				
Stainless steel Plug Han 7D (metal, gray) Han 8U (instead of Han 7D) A31 A32 A32 Han 8U (instead of Han 7D) A31 Han 8D (metal, gray) Han 8D (metal, gray) A33 Cable sockets for M12 connectors (stainless steel) Rating plate inscription (instead of German) English English English English English English Elia Spanish Elia Italian Elia V French Elia Spanish Elia V French Elia Spanish Elia V Fresch English rating plate Pressure units in inH₂0 and/or psi Cuality inspection certificate (Five-step factory calibration) to IEC 60770-2¹¹ Inspection certificate Cuality inspection certificate (Five-step factory calibration) to IEC 60770-2¹¹ Inspection certificate Acc. to EN 10204-3.1 Factory certificate Cia Cia Cia Functional safety (SIL2)* certificate Cia	bracket (2 shackles, 4 nuts, 4 U-plates,				
Plug Han 7D (metal, gray) Han 8U (instead of Han 7D) A31 A32 Han 8U (instead of Han 7D) A33 A33 A33 Cable sockets for M12 connectors (stainless steel) Rating plate inscription (instead of German) English French B11 Spanish B13 A3 B14 A3 B14 A4 B15 French B12 A5 Spanish B13 A4 B14 A7 B17 French B18 B14 A7 B18 B17 B18 B19 B19 B19 B19 B19 B19 B19 B10 B11 B11 B11 B11 B11 B11 B11 B11 B11	5 ,	A01	1	1	✓
 Han 7D (metal, gray) Han 8U (instead of Han 7D) A31 ✓ Angled Han 8D (metal, gray) A32 Han 8D (metal, gray) A33 ✓ Cable sockets for M12 connectors (stainless steel) Rating plate inscription (instead of German) English French Spanish Italian B11 ✓ ✓ ✓ Spanish Italian B14 ✓ ✓ English rating plate B13 ✓ ✓ English rating plate B13 ✓ ✓ English rating plate B14 ✓ 	• Stainless steel	A02	✓	✓	✓
• Han 8U (instead of Han 7D) • Angled •	•		,		
• Angled • Han 8D (metal, gray) Cable sockets for M12 connectors (stainless steel) Rating plate inscription (instead of German) • English • French • Spanish • Italian B11 • Italian B14 • Italian B15 • Italian B16 • Italian B17 • Italian B19 • Italian B10 • Italian B11 • Italian B11 • Italian B11 • Italian B12 • Italian B13 • Italian B14 • Italian B15 • Italian B16 • Italian B17 • Italian B17 • Italian B18 • Italian B19 • Italian B19 • Italian B19 • Italian B10 • Italian B11 • Italian B11 • Italian B12 • Italian B13 • Italian B14 • Italian B15 • Italian B16 • Italian B17 • Italian B18 • Italian B19 • Italian B19 • Italian B11 • Italian B12 • Italian B13 • Italian B14 • Italian B15 • Italian B17 • Italian B18 • Italian B19 • Italian B19 • Italian B11 • Italian B12 • Italian Italian B13 • Italian B14 • Italian B14 • Italian B15 • Italian B16 • Italian B17 • Italian B18 • Italian B19 • Italian B19 • Italian B10 • Italian B11 • Italian B12 • Italian B13 • Italian B14 • Italian B16 •	, , , , , , , , , , , , , , , , , , , ,				
Cable sockets for M12 connectors (stainless steel) Rating plate inscription (instead of German) • English • French • Spanish • Italian Rating plate inscription (instead of German) • English • French • Spanish • Italian Rating plate Pressure units in inH ₂ 0 and/or psi Quality inspection certificate (Five-step factory calibration) to IEC 60770-2¹¹ Inspection certificate² Acc. to EN 10204-3.1 Factory certificate Acc. to EN 10204-3.1 Factory certificate Acc. to EN 10204-2.2 "Functional safety (SIL2)" certificate to IEC 61508 "Functional safety (SIL2/3)" certificate to IEC 61508 Pevice passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP55/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection 'Intrinsic safety' (transmitter 7MF4B. Ex ia)") Coxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B.) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4P.) Ex Approval IEC Ex (Ex ia)	,				
Statinless steel Stating plate inscription (instead of German)	• Han 8D (metal, gray)	A33	✓		
• English • French • Spanish • Italian • Stanish • Italian • Italian • Ressure units in inH₂0 and/or psi Cuality inspection certificate (Five-step factory calibration) to IEC 60770-2¹¹ Inspection certificate²¹ Acc. to EN 10204-3.1 Factory certificate Acc. to EN 10204-2.2 "Functional safety (SIL2)" certificate to IEC 61508 "Functional safety (SIL2)" certificate to IEC 61508 "Functional safety (SIL2/3)" certificate to IEC 61508 Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ⅓-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B. Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea E11 ✓ ✓ ✓ Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B.) Explosion-proof "Intrinsic safety" (Ex ia + Ez8 ✓ ✓ ✓ Explosion-proof "Intrinsic safety" (Ex ia + Ez8 ✓ ✓ ✓ Ex Approval IEC Ex (Ex ia)		A50	✓	✓	✓
• French • Spanish • Italian • Itali	- · · · · · · · · · · · · · · · · · · ·			,	
• Spanish • Italian English rating plate Pressure units in inH₂0 and/or psi Quality inspection certificate (Five-step factory calibration) to IEC 60770-2¹¹ Inspection certificate² Acc. to EN 10204-3.1 Factory certificate Acc. to EN 10204-2.2 "Functional safety (SIL2)" certificate to IEC 61508 "Functional safety" certificate (PROFIsafe) and PROFIsafe protocol "Functional safety (SIL2/3)" certificate to IEC 61508 "Functional safety (SIL2/3)" certificate to IEC 61508 "Functional safety (SIL2/3)" certificate to IEC 61508 Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange Use in or on zone 1D/2D (only together with type of protection 'Intrinsic safety" (transmitter 7MF4B. Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ez8	9				
English rating plate Pressure units in inH ₂ 0 and/or psi Quality inspection certificate (Five-step factory calibration) to IEC 60770-2¹¹ Inspection certificate²¹ Acc. to EN 10204-3.1 Factory certificate Acc. to EN 10204-2.2 "Functional safety (SIL2)" certificate to IEC 61508 "Functional safety" certificate (PROFIsafe) and PROFIsafe protocol "Functional safety (SIL2/3)" certificate to IEC 61508 Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE DO7 Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange (1 item), PTFE packing and screws in thread of oval flange (1 them), PTFE packing and s				1	
Pressure units in inH ₂ 0 and/or psi Quality inspection certificate (Five-step factory calibration) to IEC 60770-2¹) Inspection certificate²) Acc. to EN 10204-3.1 Factory certificate C14	• Italian	B14	✓		
Inspection certificate ²⁾ Acc. to EN 10204-3.1 Factory certificate Acc. to EN 10204-2.2 "Functional safety (SIL2)" certificate to IEC 61508 "Functional safety" certificate (PROFIsafe) and PROFIsafe protocol "Functional safety (SIL2/3)" certificate to IEC 61508 Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (I item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B. Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia)		B21	✓	✓	✓
Acc. to EN 10204-3.1 Factory certificate Acc. to EN 10204-2.2 "Functional safety (SIL2)" certificate to IEC 61508 "Functional safety" certificate (PROFIsafe) and PROFIsafe protocol "Functional safety (SIL2/3)" certificate to IEC 61508 Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D Use in or on zone 1D/2D Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia)	Quality inspection certificate (Five-step factory calibration) to IEC 60770-2 ¹⁾	C11	✓	✓	✓
## Princtional safety (SIL2)" certificate to IEC 61508 ## Functional safety (SIL2)" certificate to IEC 61508 ## Functional safety (SIL2/3)" certificate to IEC 61508 ## Princtional safety (C21		C12	✓	✓	✓
Trunctional safety" certificate (PROFIsafe) and PROFIsafe protocol "Functional safety (SIL2/3)" certificate to IEC 61508 Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140°F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E23 C23 C23 C23 C23 C24 C99	-	C14	✓	✓	✓
and PROFIsafe protocol "Functional safety (SIL2/3)" certificate to IEC 61508 Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E23 ✓ ✓ ** C99 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		C20	✓		
Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E45		C21		✓	
(For price request please contact the technical support www.siemens.com/automation/support-request) Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E001 ✓ ✓ ✓ ✓ E110 ✓ ✓ ✓ ✓ ✓ E25 ✓ ✓ ✓ ✓ ✓ ✓ ✓ E26 ✓ ✓ ✓ ✓ ✓ ✓ E28 ✓ ✓ ✓ ✓ ✓ EXPlosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P)	"Functional safety (SIL2/3)" certificate to IEC 61508	C23	✓		
Setting of upper limit of output signal to 22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea E11	(For price request please contact the technical	C99	✓	✓	✓
22.0 mA Manufacturer's declaration acc. to NACE Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E10 ✓ ✓ ✓ ✓ ✓ E28 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ E28 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓					
Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia)		D05	✓		
(only for M20 x 1.5 and ½-14 NPT) Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E01 ✓ ✓ ✓ E10 ✓ ✓ ✓ E11 ✓ ✓ ✓ E25 ✓ ✓ ✓ ✓ ✓ E26 ✓ ✓ ✓ ✓ E27 E28 ✓ ✓ ✓ ✓ E28 ✓ ✓ ✓ ✓ EXPlosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P)	Manufacturer's declaration acc. to NACE	D07	✓	✓	✓
(1 item), PTFE packing and screws in thread of oval flange Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E01 ✓ ✓ ✓ E10 ✓ ✓ ✓ E25 ✓ ✓ ✓ ✓ E25 ✓ ✓ ✓ ✓ E26 ✓ ✓ ✓ ✓ E27 E28 ✓ ✓ ✓ E28 ✓ ✓ ✓ EXPlosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P)	Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT)	D12	✓	✓	✓
(only together with type of protection "Intrinsic safety" (transmitter 7MF4B Ex ia)") Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E10 ✓ ✓ ✓ ✓ E25 ✓ ✓ ✓ ✓ ✓ E26 ✓ ✓ ✓ ✓ ✓ E27 ✓ ✓ ✓ E28 ✓ ✓ ✓ ✓ E28 ✓ ✓ ✓ ✓ EXPLOSION-PROOF TRANSMITTERO (Brazil) (only for transmitter 7MF4P)	(1 item), PTFE packing and screws in thread	D37	✓	✓	✓
Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140°F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E10 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	(only together with type of protection	E01	✓	1	✓
(In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140°F)) Export approval Korea Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E11 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓					
Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E25 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	(In the case of oxygen measurement and inert	E10	•	✓	~
INMETRO (Brazil) (only for transmitter 7MF4B) "Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) Ex 4	Export approval Korea	E11	✓	✓	✓
"Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E26 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	INMETRO (Brazil)	E25	✓	✓	✓
ing to INMETRO (Brazil) (only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E45	,	Eac	.,	,	
Ex d) to INMETRO (Brazil) (only for transmitter 7MF4P) Ex Approval IEC Ex (Ex ia) E45 ✓ ✓	ing to INMETRO (Brazil)	E26	•	•	•
Ex Approval IEC Ex (Ex ia) E45 ✓ ✓ ✓	Ex d) to INMETRO (Brazil)	E28	✓	✓	
(Only for transmitter 71vii 4)		E45	✓	✓	✓

Selection and Ordering data Order code				
Further designs		HART	PA	FF
Add "-Z" to Order No. and specify Order Code.				
Ex Approval IEC Ex (Ex id) (only for transmitter 7MF4D)	E46	✓	✓	✓
Explosion-proof "Intrinsic safety" to NEPSI (China)	E55	✓	✓	✓
(only for transmitter 7MF4B) Explosion protection "Explosion-proof" to NEPSI (China) (only for transmitter 7MF4D)	E56	✓	✓	✓
Explosion-proof "Zone 2" to NEPSI (China) (only for transmitter 7MF4E)	E57	✓	✓	✓
"Intrinsic safety" and "Explosion-proof" explosion protection acc. to Kosha (Korea) (only for transmitter 7MF4[B, D]Z + E11)	E70	✓	✓	✓
Two coats of lacquer on casing and cover (PU on epoxy)	G10	✓	✓	✓

¹⁾ When the manufacture's certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here.

²⁾ If the acceptance test certificate 3.1 is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.

Selection and Ordering data	Order	code		
Additional data				
Please add "-Z" to Order No. and specify Order code(s) and plain text.				
Measuring range to be set	Y01	✓		
Specify in plain text (max. 5 characters): Y01: up to mbar, bar, kPa, MPa, psi				
Stainless steel tag plate (measuring point description)	Y15	✓	✓	✓
Max. 16 characters, specify in plain text: Y15:				
Measuring point text	Y16	✓	1	1
Max. 27 characters, specify in plain text: Y16:				
Entry of HART address (TAG)	Y17	✓		
Max. 8 characters, specify in plain text:				
Y17:				
Setting of pressure indication in pressure units	Y21	✓	✓	✓
Specify in plain text (standard setting: bar): Y21: mbar, bar, kPa, MPa, psi,				
Note: The following pressure units can be selected:				
bar, mbar, mm H ₂ O ^{*)} , inH ₂ O ^{*)} , ftH ₂ O ^{*)} , mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM or % *) ref. temperature 20 °C				
	Y22 +	./		
Setting of pressure indication in non-pressure units 1) Specify in plain text: Y22: up to I/min, m³/h, m, USgpm, (specification of measuring range in pressure units "Y01" is essential, unit with max. 5 characters)	Y01	•		
Preset bus address	Y25		✓	1
possible between 1 and 126				
Specify in plain text: Y25:				

Factory mounting of valve manifolds, see accessories.

Only Y01, Y21, Y22, Y25 and D05 can be factory preset

✓ = available

¹⁾ Preset values can only be changed over SIMATIC PDM.