

## 9.0 MODEL DESIGNATIONS AND SPECIFICATIONS

This section contains the model designation tables, a comprehensive accessory list, functional and performance specifications, and hazardous area classifications for SITRANS P Series DSIII Pressure Transmitters.

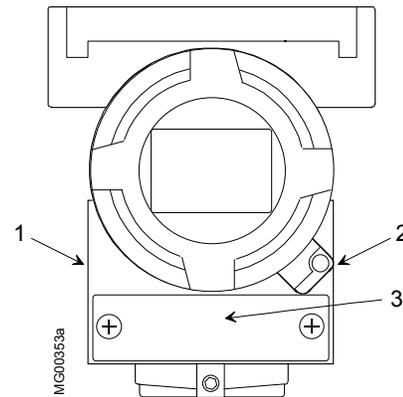
### Important

Before installing, calibrating, troubleshooting or servicing a transmitter, review this section carefully for applicable specifications and hazardous area classifications.

### 9.1 MODEL DESIGNATIONS

Tables 9-1 through 9-6 identify each entry on a transmitter’s rating and approval plates. These plates carry important transmitter information:

- Model number and serial number (Rating Plate)
- Materials of construction (Rating Plate)
- Span and rated pressure (Rating Plate)
- Certifications (Approval Plate)
- User-supplied Tag (Tag Plate)



1. Rating Plate
2. Approval Plate
3. Tag Plate

### Service Parts

Tables 9-7 through 9-13 identify service parts.

### Important

Before installing, applying or removing power, configuring, or servicing, confirm transmitter model by referring to the transmitter’s model designation on its rating plate and in Tables 9-1 through 9-6.

The table below is an overview of measurement categories and available models. For details pertaining to a model, see its model designation table and its specification table later in this section.

Measurement	Models	Model Designation	Specifications	Dimensions
Absolute or Gauge Pressure	7MF4033	Table 9-1	Table 9-15	Figure 9-1
	7MF4233	Table 9-2	Table 9-16	Figure 9-1
	7MF4333	Table 9-3	Table 9-16	Figure 9-2
Differential Pressure	7MF4433	Table 9-4	Table 9-15	Figure 9-2 or 9-3
	7MF4533	Table 9-5	Table 9-15	Figure 9-2 or 9-3
Level (Flange)	7MF4633	Table 9-6	Table 9-16	Figure 9-4
	7MF4912	Table 9-6	Table 9-16	Figure 9-4

**TABLE 9-1 Model 7MF4033, Model Designation**

Pressure transmitter, two-wire, series DSIII, 7MF4033-												
<u>Measuring cell filling</u>		<u>Measuring cell cleaning</u>			↑	↑	↑	↑	↑	↑	↑	↑
Silicone oil		Normal			1							
Inert		Grease-free			3							
<u>Span</u>		<u>PN</u>										
	0.15	To	15 psi	87 psi	B							
	0.60	To	60 psi	145 psi	C							
	2.3	To	230 psi	460 psi	D							
	9.25	To	925 psi	1450 psi	E							
	23	To	2320 psi	3625 psi	F							
	58	To	5800 psi	8700 psi	G							
<u>Material of wetted parts</u>												
<u>Process diaphragm</u>		<u>Connection shank</u>										
Stainless steel		Stainless steel			A							
Hastelloy		Stainless steel			B							
Hastelloy		Hastelloy			C							
Version for diaphragm remote process					Y	0						
<u>Process connection</u>												
Connection shank G1/2 A						0						
Female thread 1/2-14 NPT						1						
Oval flange and connection shank, stainless steel, maximum span: 2320 psi:												
- Mounting thread 7/16-20 UNF						2						
- Mounting thread M10						3						
<u>Material of non-wetted parts</u>												
Housing diecast aluminum						0						
Housing stainless steel precision casting						3						
<u>Version</u>												
Standard version										1		
International version (in preparation)												
English plate description and documentation in 5 languages on CD										2		
<u>Explosion protection</u>												
without explosion protection											A	
with explosion protection (CENELEC):												
- Degree of protection "Intrinsic safety" (EEx ia) <sup>3)</sup>											B	
- Degree of protection "Explosion proof" (EEx d) <sup>1)3)</sup>											D	
- Degree of protection "Intrinsic safety and explosion proof" (EEx ia + EEx d) <sup>1)3)</sup>											P	
Application in Zone 2 n (TÜV) <sup>3)</sup>											E	
with explosion protection (FM intrinsic safety and explosion proof) <sup>1)</sup>											H	C
with explosion protection (CSA intrinsic safety and explosion proof) <sup>1)</sup>											L	C
with explosion protection (FM + CSA for IS + XP)											N	
<u>Electrical connection / cable inlet</u>												
Screwed gland PG 13.5 <sup>2)3)</sup>		(Adapter)									A	
Female thread M 20 x 1.5											B	
Female thread 1/2-14 NPT											C	
Han 7D plug <sup>2)3)</sup>											D	
<u>Housing cover / display</u>												
without window (digital display covered, setting: mA)												1
with window (digital display, visible, setting: mA)												6
with window (digital display visible, setting: as specified in Y20)												7

Notes and "Other versions" on next page.

**Other versions**

Add "-Z" to order number and add short spec...	<b>7MF4033 - . . . . . - Z</b>
Transmitter with mounting bracket of:	
- steel	<b>A01</b>
- stainless steel	<b>A02</b>
Han 7D plug (metal, gray) <sup>3)</sup>	<b>A30</b>
Han 8U plug (instead of Han 7D) <sup>3)</sup>	<b>A31</b>
Labeling of rating plate (instead of German):	
- English	<b>B11</b>
- French	<b>B12</b>
- Spanish	<b>B13</b>
- Italian	<b>B14</b>
Manufacturer test certificate M acc. to DIN 55 350, part 18, and according to ISO 8402	<b>C11</b>
Acceptance test certificate B acc. to DIN 50 049 / EN 10 204-3.1 B	<b>C12</b>
Works certificate according to DIN 50 049-2.2 / EN 10 204-2.2	<b>C14</b>
Setting upper output signal limit to 22.0 mA	<b>D05</b>
Acid gas version according to NACE; only with Hastelloy process diaphragm	<b>D07</b>
IP 68 (not with Han 7D/Han 8U plug, cable screwed gland Pg13.5 and measuring cells ≤ 914 psi)	<b>D12</b>
Application in zone 0 (basic device EEx ia) <sup>3)</sup>	<b>E02</b>
Oxygen application (in oxygen measurement and inert filling liquid: 2325 psi maximum)	<b>E10</b>
Range to be set, specify in clear text: Y01: ... to ... mbar, psi, kPa, MPa, ... (27 characters maximum)	<b>Y01</b>
Tag number / description (16 characters maximum) specify in clear text:	<b>Y15</b>
Tag message (27 characters maximum) specify in clear text:	<b>Y16</b>
Setting digital display, specify in clear text: mbar, psi, kPa, MPa, ...	<b>Y20</b>
Factory pre-settings other than "Y01", "Y20" and "D05" are not possible.	

**Notes:**

<sup>1)</sup> Without cable screwed gland

<sup>3)</sup> Not FM approved

<sup>2)</sup> Not for "explosion proof" protection

Scope of delivery:

Transmitter as ordered, 1 brief instruction (Leporello)

Ordering example:

Position line: 7MF4033-1EA00-1AA6-Z

B-line: A01+Y01+Y20

C-line: Y01: 145 to 290 psi

C-line: Y20+D100+D36: psi