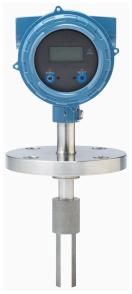
Micro Motion® Fork Density Meters

Direct insertion density meter



Rugged, accurate density and concentration measurement

- Continuous, real-time measurement in pipelines, bypass loops and tanks
- Accurate measurement of density $(\pm 1 \text{ kg/m}^3)$ and concentration $(\pm 0.1\%)$
- Wide range of corrosion-resistant materials for aggressive liquid measurement

Superior multi-variable I/O, meter health, and application capabilities

- Hazardous-area approved, head-mounted transmitter that supports local configuration and display
- Internal diagnostics for fast verification of meter health and installation
- Application-specific factory configurations ensure fit-for-purpose operation

Installation flexibility and compatibility

- Optimized design insensitive to vibration, temperature and pressure variations
- Unique direct insertion design in lengths of up to 13 ft (4 m)
- Supports multiple protocols for connection to DCS, PLC, and flow computers
- Optional stainless steel transmitter housing for corrosion resistance in harsh environments

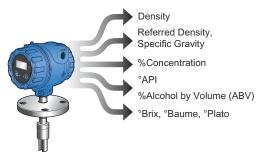


Micro Motion Fork Density Meters

Micro Motion Fork Density Meters provide precision liquid density measurement in tank and pipeline applications. The Fork Density Meters use vibrating fork technology to measure density directly, and can be used in process control where density is the primary control parameter for the end product or as an indicator of another quality control parameter, such as %solids or %concentration.

Application configurations

Integral HART I/O direct input of external temperature, pressure, and flow measurements provide enhanced readings.



Integral transmitter

Supports Time Period Signal (TPS), Analog (4-20 mA), HART, WirelessHART[®], Modbus RS-485 and FOUNDATION[™] fieldbus communications.



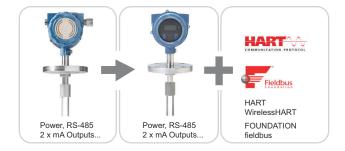
Meter diagnostics

Ensure measurement health through known density verification (KDV) and other meter and installation diagnostic capabilities.



Retrofit capabilities

Full backwards compatibility provides the same form and fit as the Micro Motion 7826/7828 direct insertion density meters.



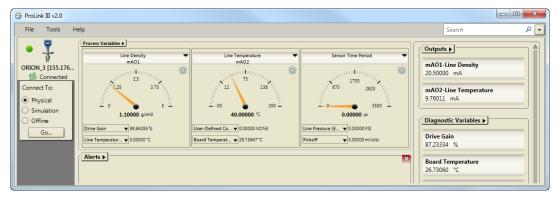
Interconnectivity

Integral HART I/O allows direct input of external temperature, pressure, and flow measurements for enhanced measurements.



ProLink® III software: a configuration and service tool

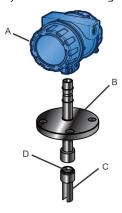
ProLink III software is an easy-to-use interface that allows you to view key process variables and diagnostics data for your meter. For more information on ordering the software, contact your local sales representative or email customer support at flow.support@emerson.com.



Operating principle

Fork vibration

- A fully welded fork assembly is mounted directly into the liquid to be measured.
- The fork tines are vibrated piezo-electrically at its natural frequency.
- The tines' natural frequency changes with the density of the surrounding liquid.



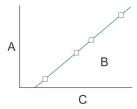
- A. Integral transmitter with optional local operator interface
- B. Process connection
- C. Vibrating tines
- D. RTD measures temperature

Temperature measurement

- An integral class "B" RTD measures the vibrating fork temperature.
- Micro Motion transmitters use this reading to optimize performance over a wide range of process conditions.

Density calibration

- Micro Motion transmitters accurately measure time period.
- Measured time periods are converted into density readings using meter calibration coefficients.



- A. Density (kg/m³)
- B. Time period = 1 / frequency
- C. [Time period]² (μ s²)

Performance specifications

Density measurement

Specification	Value	
Accuracy (1)	±1 kg/m ³	±0.001 g/cm ³
Operating density range (2)	0 to 3000 kg/m ³	0 to 3.0 g/cm ³
Repeatability	±0.1 kg/m ³	±0.0001 g/cm ³
Process viscosity effect (3)	■ No effect for 0–50 cP ■ ±4 kg/m³ (±0.004 g/cm³) for 50–200 cP	
Process temperature effect (corrected) (4)	±0.1 kg/m³ per °C	±0.0001 g/cm³ per °C
Process pressure effect (corrected)	None	

- (1) Stated accuracy is for calibrated range 600–1250 kg/m³ (0.6–1.25 g/cm³). Accuracy can be affected by the liquid viscosity. See the product configuration manual for more detail on entering an offset for the effects.
- (2) The viscosity of the liquid can be up to a maximum of 500 cP.
- (3) For viscosities between 200–500 cP, the process viscosity effect increases with the viscosity up to a maximum of ±19 kg/m³ (±0.019 g/cm³). This effect can be significantly reduced by performing an onsite calibration. Viscosity effect shown is for long tine (FDM1). For short tine (FDM2), no effect for 0-100 cP and reduced effect for 100-500 cP.
- (4) Temperature effect is the maximum measurement offset due to process fluid temperature changing away from the factory calibration temperature.

Temperature measurement

Specification	Value	
Operating temperature range – short stem	–50 °C to +200 °C	–58 °F to +392 °F
Operating temperature range – long stem	−40 °C to +150 °C	−40 °F to +302 °F
Integral temperature measurement	 Technology: 100 Ω RTD Accuracy: BS1904 Class, DIN 43760 Class B 	

Pressure ratings

Actual maximum operating pressures are limited by the process connection rating. For Zirconium flanges, the maximum operating pressure is dependent on the working temperature.

Specification	Value
Maximum operating pressure – short stem ⁽¹⁾	3,000 psi (207 bar)
Maximum operating pressure – long stem	1,450 psi (100 bar)
Test pressure	Tested to 1.5 times the maximum operating pressure
PED compliance	Not applicable

(1) For short-stem meters with a cone seat fitting, the maximum operating pressure is 1,450 psi (100 bar)

Transmitter specifications

Available transmitter versions

For more information on the transmitter outputs and ordering codes, see the Ordering information section.

Analog

Typical application	Output channels		
	A	В	С
General purpose measurementDCS/PLC connection	4–20 mA + HART (passive)	4–20 mA (passive)	Modbus/RS-485

Processor for remote-mount Model 2700 FOUNDATION fieldbus transmitter

Typical application	Output channels		
	Α	В	С
General purpose measurementDCS/PLC connection	Disabled	Disabled	Modbus/RS-485

Discrete

Typical application	Output channels		
	A	В	С
Flow Computer/Signal Converter connection	4–20 mA + HART (passive)	Discrete output	Modbus/RS-485

Time Period Signal (TPS)

Typical application	Output channels		
	A	В	С
General purpose measurement with output switchDCS/PLC connection	4–20 mA + HART (passive)	Time Period Signal (TPS)	Modbus/RS-485

Local display

Design	Features
Physical	 Segmented two-line LCD screen. Can be rotated on transmitter, in 90-degree increments, for ease of viewing. Suitable for hazardous area operation. Optical switch controls for hazardous area configuration and display. Glass lens. Three-color LED indicates meter and alert status.
Functions	 View process variables. View and acknowledge alerts. Configure mA and RS-485 outputs. Supports Known Density Verification (KDV). Supports multiple languages.

Process measurement variables

Variables	Value
Standard	 Density Temperature Drive gain External temperature (when external device connected)
Derived	The derived output variables vary, depending on the application configuration of the meter. Referred density (concentration) Referred density (API tables 53A, 53B) Specific gravity (concentration) Alcohol Alcohol proof API Balling Baume Brix Plato Mass Solids Twaddle User-defined calculation output
Derived (when external device connected)	 Mass flow Net solids flow Enhanced concentration accuracy Referred density (API tables with live pressure input) Tank mass

Additional communication options

The following communications accessories are purchased separately from the meter.

Туре	Description
WirelessHART	WirelessHART is available via the THUM adapter
FOUNDATION fieldbus	Remote-mount Model 2700 transmitter with FOUNDATION fieldbus One FOUNDATION fieldbus H1 connection provided
HART® Tri-Loop	Three additional 4-20 mA outputs are available via connection to a HART Tri- Loop

Hazardous area approvals

Ambient and process temperature limits are defined by temperature graphs for each meter and electronics interface option. Refer to the detailed approval specifications, including temperature graphs for all meter configurations, and safety instructions. See the product page at www.emerson.com.

ATEX, CSA, and IECEx approvals

ATEX		
Zone 1 Flameproof	Without display (all transmitters) C € 0575 ⟨Ex⟩	■ II 1/2G Ex db IIC T6 Ga/Gb
	With display (Analog, TPS, Discrete versions with stainless steel transmitter housing material only) (© 0575 (Ex)	■ II 1/2G Ex db IIC T6 Ga/Gb
	Remote connection to Model 2700 FOUNDATION fieldbus transmitters	■ II 1/2G Ex db [ib] IIC T6 Ga/Gb
Zone 2	Without display (all transmitter versions) C € ⟨ξx⟩	■ II 3G Ex nA IIC T6 Gc
	With display (Analog, TPS, Discrete versions with stainless steel transmitter housing material only) (■ II 3G Ex nA IIC T4 Gc

CSA	
Explosion proof	With display (Analog, TPS, Discrete versions with stainless steel transmitter housing material only) or without display (all transmitter versions)
	 Class I, Division 1, Groups C & D Class I, Division 2, Groups A, B, C & D Class II, Division 1, Groups E, F & G
Non-incendive	With display (Analog, TPS, Discrete versions) or without display (all transmitter versions) Class I, Division 2, Groups A, B, C & D

IECEx	
Zone 1 Flameproof	Without display (all transmitters)
	Ex db IIC T6 Ga/Gb
	With display (Analog, TPS, Discrete versions with stainless steel transmitter housing material only)
	Ex db IIC T6 Ga/Gb
	Remote connection to Model 2700 FOUNDATION fieldbus transmitters:
	Ex db [ib] IIC T6 Ga/Gb
Zone 2	Without display (all transmitter versions)
	Ex nA IIC T6 Gc
	With display (Analog, TPS, Discrete versions with aluminum housing only)
	Ex nA IIC T4 Gc
	With display (Analog, TPS, Discrete versions with stainless steel transmitter housing material only)
	■ Ex nA IIC T4 Gc

Environmental specifications

Туре	Rating	
Electromagnetic compatibility	All versions conform to the latest internation compliant with EN 61326	onal standards for EMC, and are certified
Humidity limits	5 to 95% relative humidity, non-condensing	g at 140 ° F (60 °C)
Ambient temperature	-40 °C to +65 °C	-40 °F to +149 °F
Ingress protection rating	IP66/67, NEMA4 aluminum housingNEMA4X stainless steel housing	

Power requirements

Туре	Description
DC Power requirements	 24 VDC, 0.65 W typical, 1.1 W maximum Minimum recommended voltage: 21.6 VDC with 1000 ft of 24 AWG (300 m of 0.20 mm²) power-supply cable At startup, power source must provide a minimum of 0.5 A of short-term current with a minimum of 19.6 V at the power input terminals.

Physical specifications

Materials of construction

Component	Material
Wetted parts	Short-stem meter
	■ 304 or 316L stainless steel
	Alloy C22
	Titanium
	■ Zirconium
	Long-stem meter
	■ Alloy C22 for meters up to 6.5 ft (2 m) long
	■ 316L stainless steel for meters up to 13 ft (4 m) long
Tine finish	Standard, DLC (Diamond-Like Carbon) coated, or electro-polished
	DLC coating is applied only to the tines for anti-stick properties, not for corrosion protection.
Transmitter housing	Polyurethane-painted aluminum or 316L stainless steel

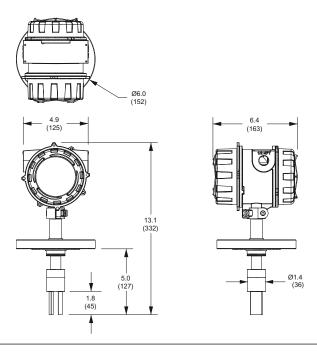
Weight

Specification	Weight with aluminum housing	Weight with stainless steel housing
Weight – short stem (typical)	Approximately 15 lbs (7 kg)	Approximately 21 lbs (10 kg)
Weight – long stem	Dependent on stem length (contact custor	ner support)

Dimensions

These dimensional drawings are intended to provide a basic guideline for sizing and planning. For information about obtaining complete and detailed dimensional drawings, refer to www.emerson.com/density.

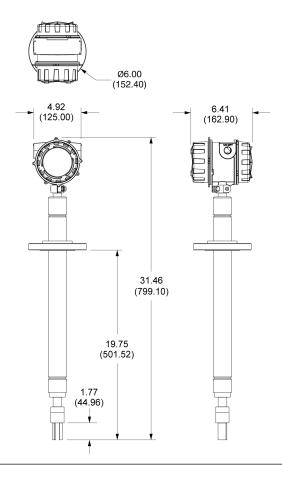
Figure 1: Short-stem meter



Note

Dimensions are shown in inches (mm).

Figure 2: Long-stem meter



Note

- Dimensions are shown in inches (mm).
- Stem length can be from 19.7 inches (500 mm) to 13 feet (4 m).
- Diagrams include the 2-inch (51 mm) CL 150 flange.

Ordering information

Model	Description
FDM	Insertion Fork Density Meter

Code	Sensor calibration range and performance
1	Viscosity limit 500 cP, [Standard tine length: 3 in (75 mm)
	Standard - Accuracy ±0.001g/cc (±1 kg/m³) over Density Range 0.6-1.25g/cc (600-1250kg/m³)
2	Viscosity limit 20,000cP, [Short tine length = 1.8 in (45 mm)]
	Standard - Accuracy ±0.001g/cc (±1 kg/m³) over Density Range 0.6-1.25g/cc (600-1250kg/m³)

Code	Stem length
1	0 mm: no stem extension and with standard spigot
2	19.7 in (500 mm) with removable transit cover
3	29.5 in (750 mm) with removable transit cover
4	39.4 in (1000 mm) with removable transit cover
5	59.1 in (1500 mm) with removable transit cover
6	78.7 in (2000 mm) with removable transit cover
X (1)	Special order (ETO) stem length — available up to 13 ft (4 m)

(1) Requires factory option X.

Code	Materials of wetted parts (including process connection)		
Available with all ster	Available with all stem length codes		
Α	316L stainless steel, standard finish		
С	316L stainless steel, electro-polished tines		
L	316L stainless steel, DLC (Diamond-Like Carbon) coated tines		
E	Alloy C22, standard finish tines		
Available with only st	Available with only stem length code 1 or X		
D	Alloy C22, electro-polished tines		
V (1) (2)	304 stainless steel, standard finish tines		
Available with only st	Available with only stem length code 1		
T (1) (3)	Titanium, standard finish tines		
N ⁽¹⁾ ⁽³⁾	Zirconium, Zr 702 standard finish tines		
X (4)	Special order (ETO) Material of wetted parts		

- (1) Available with process connections 720, 721, 723, 724 and 999 only.
- (2) With stem length X is available only with process connection 999.
- (3) Not available with sensor calibration range and performance code 2.
- (4) Requires factory option X.

Code	Process connections	
Available with all ster	Available with all stem length codes	
720	2-inch, CL150, ASME B16.5, raised face	
721	2-inch, CL300, ASME B16.5, raised face	
722	2-inch, CL600, ASME B16.5, raised face	
723	DN50, PN16, EN 1092-1, Type B1	
724	DN50, PN40, EN 1092-1, Type B1	

Code	Process connections
725	DN50, PN100, EN 1092-1, Type B1
999 (1)	Special order (ETO) process connection
Available with only st	rem length code 1
718 ⁽²⁾⁽³⁾	2-inch, Tri-clamp compatible, ASME BPE, Hygienic flange
726	2-inch, CL900, ASME B16.5, raised face
727	2-inch, CL1500, ASME B16.5, raised face
728 (2)(4)	3-inch, Tri-clamp compatible, ASME BPE, Hygienic flange
729	1-1/2 inch, cone-seat compression fitting, 316/316L
740 (5) (6)	3-inch, CL150, ASME B16.5, raised face
741 ^{(5) (6)}	3-inch, CL300, ASME B16.5, raised face
743 (5) (6)	DN80, PN16, EN1092-1, raised face
744 (5) (6)	DN80, PN40, EN1092-1, raised face
Available with only stem length codes 2, 3, 4, 5, 6, or X	
730 ⁽⁷⁾	No connections (for open tanks)

- (1) Requires factory option X.
- (2) Available with only materials of wetted parts codes A, C, F, and L.
- (3) Available with calibration types A or F.
- (4) Available with only calibration types A or G.
- (5) Available with only calibration type E.
- (6) Available with only materials of wetted parts codes A, C, L, E, and D.
- (7) Not available with HT Special Test Option.

Code	Sensor calibration types
Α	Free stream
В	2-inch schedule 40 boundary [viscosity limits = 200 cSt (T-piece), 1000 cSt (782791 flow through chamber)]
D	2-inch schedule 80 boundary [viscosity limit = 200 cSt (T-piece)]
E (1)	3-inch schedule 80 boundary [viscosity limit = 1000 cSt (782791 flow through chamber)]
X (2)	Special order (ETO) calibration type
F (3)	2-inch hygienic (Viscosity limits = 200 cSt)
G ⁽⁴⁾	3-inch hygienic (viscosity limits = 1000 cSt)

- (1) For tine length 3-inches (75mm) (FDM 1), viscosity limit is 500 cSt.
- (2) Requires factory option X.
- (3) Available with only process connection 718.
- (4) Available with only process connection 728.

Code	Transmitter housing option
A	Integral, aluminum alloy

Code	Transmitter housing option
В	Integral, stainless steel

Code	Transmitter outputs option
A (1) (2) (3)	Integral processor for remote mount 2700 FOUNDATION™ fieldbus transmitter (Channels A and B inactive)
В	Integral transmitter, Channel B = Time Period Signal, Channel A = mA + HART, Channel C = Modbus/RS-485
С	Integral transmitter, Channel B = mA output, Channel A = mA + HART, Channel C = Modbus/RS-485
D	Integral transmitter, Channel B = Discrete output, Channel A = mA + HART, Channel C = Modbus/RS-485

- (1) Requires Model 2700 transmitter with mounting option H 4 wire connection option (power and communications).
- (2) With Transmitter Output Options code A, all signal outputs on the integrally mounted transmitter are disabled, except for the Modbus/RS-485 communications which is used for communication to the Model 2700 transmitter.
- (3) Available with only application configuration code P.

Code	Display option (available with all approval codes)
2 (1) (2)	Two-line display (non-backlit)
3	No display

- (1) For transmitter housing option code A, available with only approval codes M, 2, V and 3.
- (2) Not available with transmitter output option code A.

Code	Approvals
М	Safe area - no hazardous area approval
A (1)(2)	CSA (US and Canada) – Explosion-proof
F (2)(3)	ATEX - Zone 1 IIC flameproof
(2)(3)	IECEx - Zone 1 IIC flameproof
2	CSA Class 1, Div 2 (US and Canada)
V	ATEX - Equipment category 3 (Zone 2)
3	IECEx - Zone 2
G	Country-specific approval. Requires an R1 or R2 selection from the Special tests and certificates, tests, calibrations and services (optional) table.

- (1) For transmitter output options code A, CSA approvals code A (C1D1) is valid only for groups C and D.
- (2) Not available with Transmitter Housing Option A with Display Option 2.
- (3) For transmitter output options code A, approvals codes F and I will indicate Exd [ib], not Exd.

Code	Application configuration ^{(1) (2)}
Available with all wetted materials codes	
00	No application configuration
11	API degrees (Americas) (4mA = 0°, 20mA = 100°): (Process temperature = 0 °C to 60 °C)
12	Line density (4mA = 500kg/m ³ , 20mA = 1500kg/m ³): (Process temperature = -40 °C to +140 °C)

Application configuration ^{(1) (2)}	
Referred density to API tables (metric) (4mA = 500kg/m ³ , 20mA = 1500kg/m ³):	
(Process temperature = -40 °C to +140 °C)	
% NaOH Concentration (4mA = 0%, 20mA = 50%): (Process temperature = 0 °C to 80 °C)	
% KOH Concentration (4mA = 0%, 20mA = 40%): (Process temperature = 0 °C to 90 °C)	
Special order (ETO) analog output configuration (customer data required)	
materials codes A, C, F, L, E, D, and G only	
% Alcohol (4mA = 0%, 20mA = 20%): (Process temperature = 0 °C to 40 °C)	
% Alcohol (4mA = 50%, 20mA = 100%): (Process temperature = 40 °C to 70 °C)	
% Alcohol (4mA = 80%, 20mA = 100%): (Process temperature = 50 °C to 90 °C)	
Alcohol proof (4mA = 100%, 20mA = 200%): (Process temperature = 5 °C to 70 °C)	
Alcohol proof (4mA = 160%, 20mA = 200%): (Process temperature = 50 °C to 90 °C)	
% Methanol Concentration (4mA = 35%, 20mA = 60%): (Process temperature = 0 $^{\circ}$ C to 40 $^{\circ}$ C)	
% Ethylene Glycol Concentration (4mA = 10%, 20mA = 50%): (Process temperature = -20 °C to 40 °C)	
°Brix (sucrose) (4mA = 0°, 20mA = 40°): (Process temperature = 0 °C to 100 °C)	
°Brix (sucrose) (4mA = 30°, 20mA = 80°): (Process temperature = 0 °C to 100 °C)	
°Balling (4mA = 0°, 20mA = 20°): (Process temperature = 0 °C to 100 °C)	
% HFCS - 42 (4mA = 0%, 20mA = 50%): (Process temperature = 0 °C to 100 °C)	
% HFCS - 55 (4mA = 0%, 20mA = 50%): (Process temperature = 0 °C to 100 °C)	
% HFCS - 90 (4 mA = 0%, 20 mA = 50%): (Process temperature = 0 °C to 100 °C)	
°Plato (4mA = 0°, 20mA = 30°): (Process temperature = 0 °C to 100 °C)	
materials codes A, C, F, L, E, D, G, and N only	
% H2SO4 Concentration (4mA = 0%, 20mA = 20%): (Process temperature = 0 $^{\circ}$ C to 24 $^{\circ}$ C)	
materials codes E, D, and G only	
% H2SO4 Concentration (4mA = 0%, 20mA = 93%): (Process temperature = 0 $^{\circ}$ C to 38 $^{\circ}$ C)	
Available with wetted materials codes E, D, G, and N only	
% H2SO4 Concentration (4mA = 0%, 20mA = 25%): (Process temperature = 0 $^{\circ}$ C to 50 $^{\circ}$ C)	
Available with wetted materials codes A, C, F, L, E, D, and G only	
% H2SO4 Concentration (4mA = 75%, 20mA = 93%): (Process temperature = 24 °C to 38 °C)	
Available with wetted materials codes N and A only	
% HNO3 Concentration (4mA = 0%, 20mA = 70%): (Process temperature = 0 °C to 50 °C)	
materials code N only	

Code	Application configuration ^{(1) (2)}	
58	% HNO3 Concentration (4mA = 0%, 20mA = 100%): (Process temperature = 5 °C to 30 °C)	
61	% HCl Concentration (4mA = 0%, 20mA = 5%): (Process temperature = 0 °C to 90 °C)	
62	% HCl Concentration (4mA = 0%, 20mA = 32%): (Process temperature = 0 °C to 49 °C)	
Available with all wetted materials and transmitter output options code B only		
96	Process temperature (4 mA = -50 °C, 20 mA = 200 °C)	
97	Process temperature (4 mA = -50 °C, 20 mA = 150 °C)	
98	Process temperature (4 mA = 0 °C, 20 mA = 100 C °F)	

- (1) When transmitter output options code is C or D, the chosen application configuration code 4mA and 20mA are programmed as the Channel A mA output 4mA and 20mA points.
- (2) For transmitter output options code A, all signal outputs on the integrally-mounted transmitter are disabled apart from the RS485 modbus communications used for communication.
- (3) Not available with Materials of Wetted Parts code T (Titanium).
- (4) Requires factory option X.

Code	Language (manual and software)	
Transmitter display la	Transmitter display language English	
E	English installation manual and English configuration manual	
I	Italian quick installation manual and English configuration manual	
М	Chinese quick installation manual and English configuration manual	
R	Russian quick installation manual and English configuration manual	
Transmitter display language French		
F	French quick installation manual and English configuration manual	
Transmitter display language German		
G	German quick installation manual and English configuration manual	
Transmitter display language Spanish		
S	Spanish quick installation manual and English configuration manual	

Code	Future option 1
Z	Reserved for future use

Code	Conduit connections
Z	Standard 1/2-inch NPT fittings (no adapters)
В	M20 stainless steel adapters

Code	Factory options
Z	Standard product

Code	Factory options
X	Special order (ETO) product

Code	Special tests and certificates, tests, calibrations and services (optional) ⁽¹⁾	
Material quality examination tests and certificates		
MC	Material Inspection Certificate 3.1 (Supplier Lot Traceability per EN 10204)	
NC	NACE Certificate 2.1 (MR0175 and MR0103)	
Pressure testing		
НТ	Hydrostatic Test Certificate 3.1	
Dye penetrant examination		
D1	Dye Penetrant Test Package 3.1 (Sensor only; Liquid Dye Penetration NDE Qualification)	
Weld examination		
WP	Weld Procedure Package (Weld Map, Weld Procedure Specification, Weld Procedure Qualification Record, Welder Performance Qualification)	
Positive material testing (select only one from this group)		
PM	Positive Material Test Certificate 3.1 (without carbon content)	
PC	Positive Material Test Certificate 3.1 (including carbon content)	
Sensor completion options		
WG	Witness General	
SP	Special Packaging	
Instrument tagging		
TG	Instrument Tagging - customer information required (max. 24 characters)	
Country-specific approvals (select only one when Approvals option G is selected)		
R2 ^{(2) (3)}	EAC Zone 1 - Hazardous area approval	
R3 ^{(2) (3)}	EAC Zone 2 - IIC modified - Hazardous area approval	

- (1) Multiple test or certificate options may be selected.
- (2) Available only with approval G
- (3) Not available with Transmitter Output Options code F or Transmitter Housing Option B

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