

# Micro Motion™ Fork Viscosity Meters

High performance multi-variable viscosity meter



## Rugged, accurate multivariable measurement

- Continuous, multivariable measurement of viscosity, density, and temperature
- Accurate measurement of viscosity ( $\pm 1\%$  of full scale) and density ( $\pm 1 \text{ kg/m}^3$ )
- Optimized design – insensitive to vibration, temperature, and pressure variations

## Superior multivariable 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

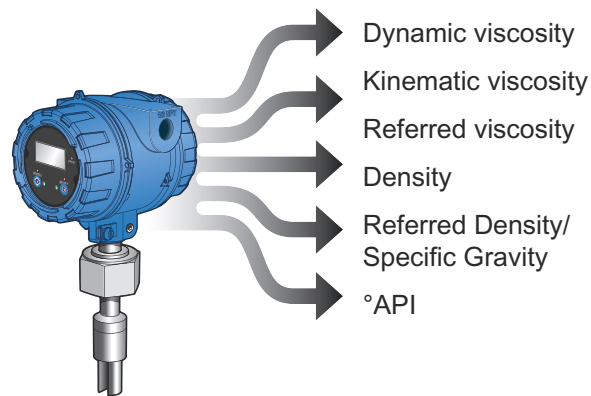
- Direct insertion design for pipeline, bypass loop, and tank installations
- Unique direct insertion design in lengths of up to 13 ft (4 m)
- Supports multiple protocols for connection to Distributed Control Systems (DCSs), programmable logic controllers (PLCs), and flow computers
- Optional stainless steel transmitter housing for corrosion resistance in harsh environments

## Micro Motion Fork Viscosity Meters

Micro Motion Fork Viscosity Meters are accurate multi-variable devices that measure liquid viscosity, density and temperature under demanding conditions. These meters use vibrating fork technology to provide reliable direct insertion measurement. Use these viscosity meters in applications as diverse as product detection, fuel blending and heater combustion control.

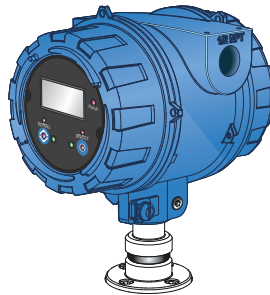
### Application configurations

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



### Transmitter options

Supports Analog (4-20 mA), HART®, WirelessHART®, Modbus® RS-485 and FOUNDATION™ Fieldbus communications.



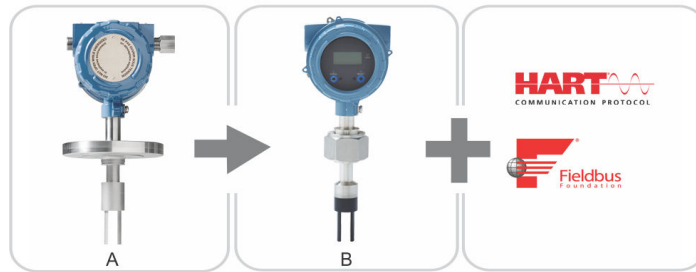
### Meter diagnostics

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



### Retrofit capabilities

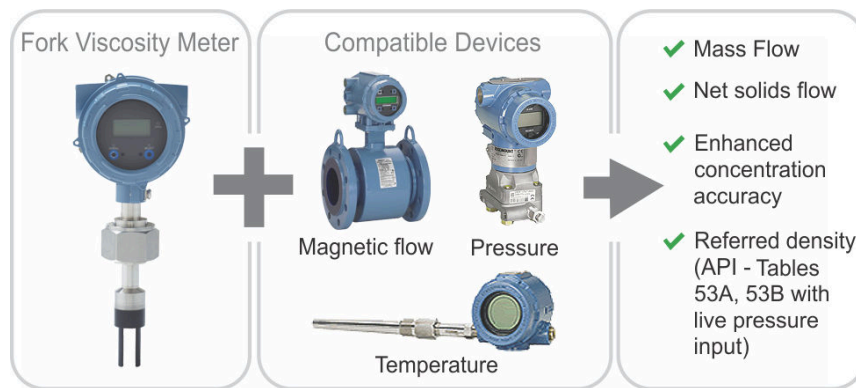
Sensor commonality simplifies the drop-in replacement of the Micro Motion 7827 and 7829 Visconic Viscosity Meters.



- A. Power, RS-485, 2 x mA outputs ...
- B. Power, RS-485, 2 x mA outputs ...

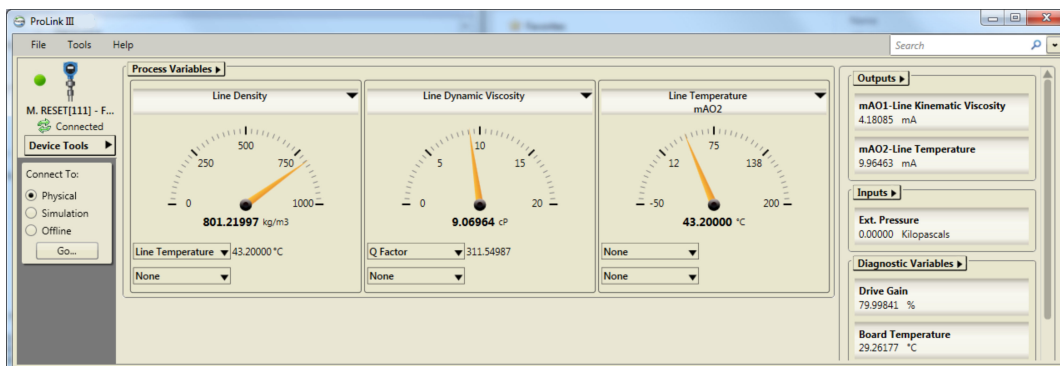
### Interconnectivity

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](mailto:flow.support@emerson.com).



## Access information when you need it with asset tags

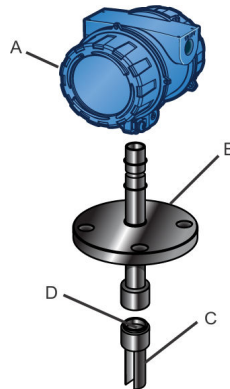
Newly shipped devices include a unique QR code asset tag that enables you to access serialized information directly from the device. With this capability, you can:

- Access device drawings, diagrams, technical documentation, and troubleshooting information in your MyEmerson account
- Improve mean time to repair and maintain efficiency
- Ensure confidence that you have located the correct device
- Eliminate the time-consuming process of locating and transcribing nameplates to view asset information

## 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.



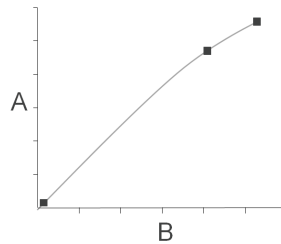
- A. *Integral transmitter with optional local operator interface*
- B. *Process connection*
- C. *Vibrating tines*
- D. *RTD measures temperature*

### Temperature measurement

- A 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

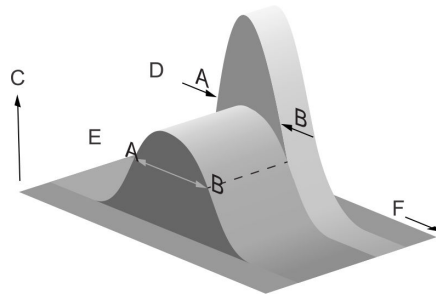
- Micro Motion transmitters accurately measure time period.
- Measured time periods are converted into density readings using meter calibration coefficients.
- Three density calibration fluids ensure optimum meter performance.



- A.  $[\text{Time period}]^2$  ( $\mu\text{s}^2$ )  
 B. Density ( $\text{kg}/\text{m}^3$ )

## Viscosity calibration

- The bandwidth of the tines' natural frequency changes with the viscosity of the surrounding liquid.
- Micro Motion transmitters accurately measure bandwidth.
- Bandwidth measurements are converted into viscosity readings using meter calibration coefficients.
- Up to 11 viscosity calibration fluids ensure optimum meter performance.



- A. Point A  
 B. Point B  
 C. Response amplitude  
 D. Product 1 = low viscosity  
 E. Product 2 = high viscosity  
 F. Frequency (Hz)

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### Note

- Bandwidth = point B - point A
  - Resonant frequency =  $(\text{point A} + \text{point B}) / 2$
  - Quality factor = resonant frequency / bandwidth
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## Performance specifications

### Viscosity measurement

Specification	Value	
Calibration range and accuracy	Calibration range	Accuracy
	0.5 to 10 cP	±0.2 cP
	10 to 100 cP	±1% of calibration range maximum
	100 to 1000 cP	±1% of calibration range maximum
	1000 to 12500 cP	±1% of calibration range maximum
Multiple calibration range options <sup>(1)</sup>	<ul style="list-style-type: none"> <li>■ 0.5 to 100 cP</li> <li>■ 0.5 to 1000 cP</li> <li>■ 10 to 1000 cP</li> <li>■ 0.5 to 12500 cP</li> <li>■ 10 to 12500 cP</li> <li>■ 100 to 12500 cP</li> </ul>	
Operating viscosity range	0.5 to 20,000 cP	
Repeatability	±0.5% of reading	

(1) Accuracies depend upon which calibration range is applicable for the measured viscosity.

### Density measurement

Specification	Value
Accuracy	±1 kg/m <sup>3</sup> (±0.001 g/cm <sup>3</sup> )
Operating density range	0 to 3,000 kg/m <sup>3</sup> (3.0 g/cm <sup>3</sup> )
Calibration range	600 kg/m <sup>3</sup> (0.6 g/cm <sup>3</sup> ) to 1,250 kg/m <sup>3</sup> (1.25 g/cm <sup>3</sup> )
Repeatability	±0.1 kg/m <sup>3</sup> (±0.0001 g/cm <sup>3</sup> )
Process temperature effect (corrected)	±0.1 kg/m <sup>3</sup> (±0.0001 g/cm <sup>3</sup> ) per °C
Process pressure effect (corrected)	None

### Temperature measurement

Specification	Value
Operating temperature range – short stem	-58 °F (-50 °C) to 392 °F (200 °C)
Operating temperature range – long stem	-40 °F (-40 °C) to 302 °F (150 °C)
Integral temperature measurement	<ul style="list-style-type: none"> <li>■ Technology: 100 Ω RTD</li> <li>■ Accuracy: BS1904 Class, DIN 43760 Class B</li> </ul>

### Pressure ratings

Actual maximum operating pressures are limited by the process connection rating.

Specification	Value
Maximum operating pressure – short stem <sup>(1)</sup>	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)

### Zirconium process connection pressure/temperature ratings

Process flange type	Pressure and temperature ratings			
	100 °F (37.8 °C)	199.9 °F (93.28 °C)	299.8 °F (148.78 °C)	392 °F (200.0 °C)
2 in (51 mm) ANSI 150	226.3 psi (15.603 bar)	197.3 psi (13.603 bar)	159.5 psi (10.997 bar)	110.2 psi (7.598 bar)
2 in (51 mm) ANSI 300	588.9 psi (40.603 bar)	513.4 psi (35.398 bar)	417.7 psi (28.799 bar)	336.5 psi (23.201 bar)
DN50 PN16	229.2 psi (15.803 bar)	175.5 psi (12.100 bar)	137.8 psi (9.501 bar)	107.3 psi (7.398 bar)
DN50 PN40	571.5 psi (39.404 bar)	439.5 psi (30.302 bar)	342.3 psi (23.601 bar)	266.9 psi (18.402 bar)

## Transmitter specifications

### Available transmitter versions

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

#### Analog

##### Note

mA Output is linear with process from 3.8 to 20.5 mA, per NAMUR NE-43 (February 2003).

Typical application	Output channels		
	A	B	C
<ul style="list-style-type: none"> <li>■ General purpose measurement</li> <li>■ DCS/PLC connection</li> </ul>	4–20 mA + HART (passive)	4–20 mA (passive)	Modbus/RS-485

#### Processor for remote-mount 2700 FOUNDATION Fieldbus transmitter

Typical application	Output channels		
	A	B	C
<ul style="list-style-type: none"> <li>■ General purpose measurement</li> <li>■ DCS/PLC connection</li> </ul>	Disabled	Disabled	Modbus/RS-485

**Discrete**

Typical application	Output channels		
	A	B	C
<ul style="list-style-type: none"> <li>■ General purpose measurement with output switch</li> <li>■ DCS/PLC connection</li> </ul>	4–20 mA + HART (passive)	Discrete Output (passive)	Modbus/RS-485

**Local display**

Design	Features
Physical	<ul style="list-style-type: none"> <li>■ Segmented two-line LCD display screen.</li> <li>■ Can be rotated on transmitter, in 90-degree increments, for ease of viewing.</li> <li>■ Suitable for hazardous area operation.</li> <li>■ Optical switch controls for hazardous area configuration and display.</li> <li>■ Glass lens.</li> <li>■ Three-color LED indicates meter and alert status.</li> </ul>
Functions	<ul style="list-style-type: none"> <li>■ View process variables.</li> <li>■ View and acknowledge alerts.</li> <li>■ Configure mA and RS-485 outputs.</li> <li>■ Supports Known Density Verification (KDV).</li> <li>■ Supports multiple languages.</li> </ul>

**Process measurement variables**

Variables	Value
Standard	<ul style="list-style-type: none"> <li>■ Dynamic viscosity</li> <li>■ Kinematic viscosity</li> <li>■ Density</li> <li>■ Temperature</li> <li>■ External temperature (when external device connected)</li> </ul>
Derived	<p>The derived output variables vary, depending on the application configuration of the meter.</p> <ul style="list-style-type: none"> <li>■ Referred kinematic viscosity (ASTM D341-03)</li> <li>■ Referred density</li> <li>■ Referred density (API)</li> <li>■ User-defined calculation output</li> </ul>



Variables	Value
Derived (when external device connected)	<ul style="list-style-type: none"> <li>■ Mass flow</li> <li>■ Net solids flow</li> <li>■ Enhanced concentration accuracy</li> <li>■ Referred density (API tables with live pressure input)</li> </ul>

### Additional communication options






The following communications accessories are purchased separately from the meter.

Type	Description
WirelessHART	WirelessHART is available via the THUM adapter
FOUNDATION Fieldbus	Remote-only 2700 transmitter with FOUNDATION Fieldbus <ul style="list-style-type: none"> <li>■ One FOUNDATION Fieldbus H1 connection provided</li> </ul>
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](http://www.emerson.com).

### ATEX, CSA, and IECEx approvals

ATEX		
Zone 1 Flameproof	Without display (all transmitters) 	■ II 1/2G Ex db IIC T6 Ga/Gb
	With display (analog, TPS, discrete versions with stainless steel transmitter housing material only) 	■ II 1/2G Ex db IIC T6 Ga/Gb
	Remote connection to 2700 FOUNDATION Fieldbus transmitters 	■ II 1/2G Ex db [ib] IIC T6 Ga/Gb
Zone 2	Without display (all transmitter versions) 	■ 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) <ul style="list-style-type: none"> <li>■ Class I, Division 1, Groups C &amp; D</li> <li>■ Class I, Division 2, Groups A, B, C &amp; D</li> <li>■ Class II, Division 1, Groups E, F &amp; G</li> </ul>
Non-incendive	With display (analog, TPS, discrete versions) or without display (all transmitter versions) <ul style="list-style-type: none"> <li>■ Class I, Division 2, Groups A, B, C &amp; D</li> </ul>

IECEX	
Zone 1 Flameproof	Without display (all transmitters) <ul style="list-style-type: none"> <li>■ Ex db IIC T6 Ga/Gb</li> </ul>
	With display (analog, TPS, discrete versions with stainless steel transmitter housing material only) <ul style="list-style-type: none"> <li>■ Ex db IIC T6 Ga/Gb</li> </ul>
	Remote connection to 2700 FOUNDATION Fieldbus transmitters: <ul style="list-style-type: none"> <li>■ Ex db [ib] IIC T6 Ga/Gb</li> </ul>
Zone 2	Without display (all transmitter versions) <ul style="list-style-type: none"> <li>■ Ex nA IIC T6 Gc</li> </ul>
	With display (analog, TPS, discrete versions with aluminum housing only) <ul style="list-style-type: none"> <li>■ Ex nA IIC T4 Gc</li> </ul>
	With display (analog, TPS, discrete versions with stainless steel transmitter housing material only) <ul style="list-style-type: none"> <li>■ Ex nA IIC T4 Gc</li> </ul>

## Environmental specifications

Type	Rating
EMC effects	Complies with EMC directive 2014/30/EU
	Complies with NAMUR NE-21 Edition: 2017-08-01
Humidity limits	5 to 95% relative humidity, non-condensing at 140 °F (60 °C)
Ambient temperature limits	-40 °F (-40 °C) to 149 °F (65 °C)
Ambient temperature effect	Effect on mA output shall not exceed ±0.005% of span per degree Celsius
Ingress protection rating	IP66/67, NEMA® 4X aluminum or stainless steel housing

## Power requirements

Type	Description
DC power requirements	<ul style="list-style-type: none"> <li>▪ 24 VDC, 0.65 W typical, 1.1 W maximum</li> <li>▪ Minimum recommended voltage: 21.6 VDC with 1,000 ft (305 m) of AWG (300 m of 0.20 mm<sup>2</sup>) power-supply cable</li> <li>▪ 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.</li> </ul>

## Physical specifications

### Materials of construction

Component	Material
Wetted parts	316L stainless steel
Tine finish	<ul style="list-style-type: none"> <li>▪ Standard, DLC (Diamond-Like Carbon) coated, or electro-polished</li> <li>▪ DLC coating is applied only to the tines for anti-stick properties, not for corrosion protection</li> <li>▪ Electro-polished tines have a surface finish of equal to or better than 125 Ra finish (3.2 μm)</li> </ul>
Transmitter housing	316L stainless steel or polyurethane-painted aluminum

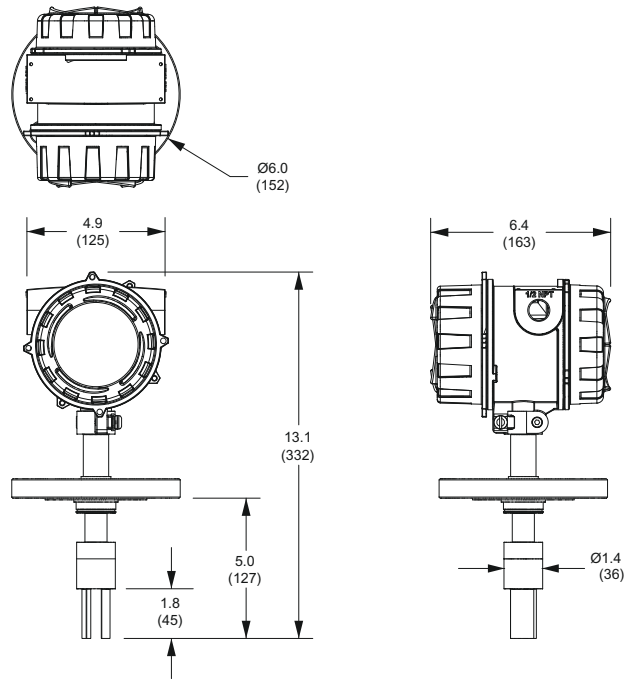
### Approximate weight

Specification	With aluminum housing	With stainless steel housing
Weight – short stem (typical)	15 lb (6.8 kg)	21 lb (9.5 kg)
Weight - 500 mm long stem	28.6 lb (13 kg)	34.6 lb (15.69 kg)

## Dimensions

These dimensional drawings are intended to provide a basic guideline for sizing and planning. For information about obtaining complete and detailed dimensional drawings, go to [www.emerson.com/density](http://www.emerson.com/density).

### Short-stem meter (short tines - model FVM11)



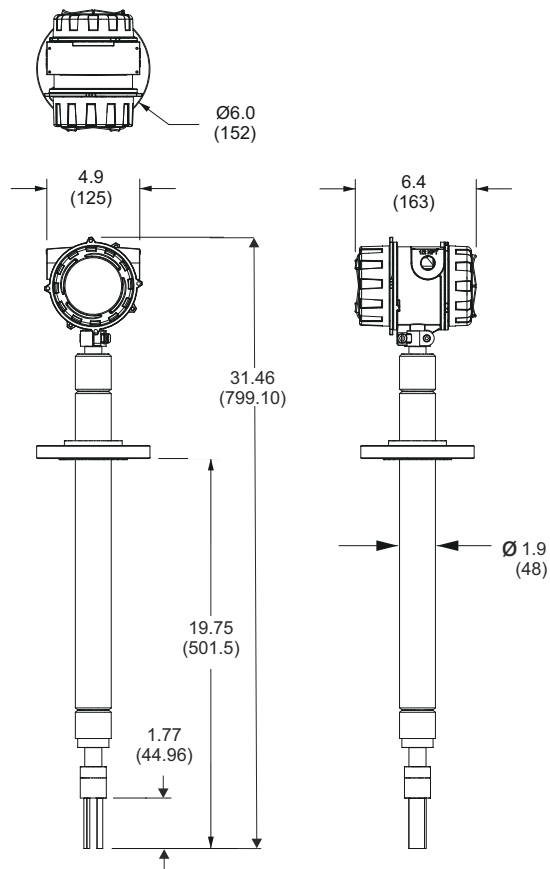
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#### Note

Dimensions are shown in inches (mm)

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**Long-stem meter (short tines - model FVM12)**



**Notes**

- Dimensions are shown in inches (mm).
- Stem length can be from 0 in (0 mm) to 13 ft (4 m). See *Stem length* in [Ordering information](#).

## Ordering information

Model	Description
FVM	Insertion Fork Viscosity Meter

Code	Sensor calibration range and performance
1	Viscosity accuracy $\pm 0.2$ cP (0-10 cP range) then $\pm 1\%$ of FS of calibrated range, viscosity limit 20,000 cP

Code	Stem length
1	0 mm: no stem extension and with standard spigot
2	19.7 in (500 mm) with removable transit cover
X <sup>(1)</sup>	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)
A	316L stainless steel, standard finish
C	316L stainless steel, electro-polished tines
L	316L stainless steel, DLC (Diamond-Like Carbon) coated tines
X <sup>(1)</sup>	Special order (ETO) Material of wetted parts

(1) Requires factory option X.

Code	Process connections
<b>Available with all stem length codes</b>	
720	2 in, CL150, ASME B16.5, raised face
721	2 in, CL300, ASME B16.5, raised face
722	2 in, CL600, ASME B16.5, raised face
723	DN50, PN16, EN 1092-1, Type B1
724	DN50, PN40, EN 1092-1, Type B1
999 <sup>(1)</sup>	Special order (ETO) process connection
<b>Available with only stem length code 1</b>	
718 <sup>(2)(3)</sup>	2 in, Tri Clamp compatible, ASME BPE, Hygienic flange
726	2 in, CL900, ASME B16.5, raised face
727	2 in, CL1500, ASME B16.5, raised face
728 <sup>(3)(4)</sup>	3 in, Tri Clamp compatible, ASME BPE, Hygienic flange
729	1.5 in, cone-seat compression fitting
740	3 in, CL150, ASME B16.5, raised face
741	3 in, CL300, ASME B16.5, raised face

Code	Process connections
<b>Available with only stem length code 2 or X</b>	
730	No connections for open tanks

- (1) Requires factory option X.  
 (2) Available with only calibration types A or F.  
 (3) Available with only materials of wetted parts codes A, C, F, and L.  
 (4) Available with only calibration types A or G.

Code	Sensor calibration types
A	Free stream
B	2 in schedule 40 boundary [viscosity limits = 200 cSt (T-piece or flow through chamber)]
D	2 in schedule 80 boundary [viscosity limit = 200 cSt (T-piece)]
E	3 in schedule 80 boundary [viscosity limit = 500 cSt (T-piece), 1000 cSt (782791 flow through chamber)]
F <sup>(1)</sup>	2 in hygienic (Viscosity limits = 200 cSt)
G <sup>(2)</sup>	3 in hygienic (Viscosity limits = 1000 cSt)
H	2.5 in inch schedule 40 boundary (viscosity limit = 200 cSt [T piece])
X <sup>(3)</sup>	Special order (ETO) calibration type

- (1) Available with only process connection 718.  
 (2) Available with only process connection 728.  
 (3) Requires factory option X.

Code	Transmitter housing option
A	Integral, aluminum alloy
B	Integral, stainless steel

Code	Transmitter outputs option
A <sup>(1)(2)(3)</sup>	Integral processor for remote mount 2700 FOUNDATION Fieldbus transmitter (Channels A and B inactive)
C	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 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 2700 transmitter.  
 (3) Available only with configuration code 00.

Code	Display option (available with all approval codes)
2 <sup>(1)(2)</sup>	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
M	Safe area - no hazardous area approval
2 <sup>(1)</sup>	CSA Class 1 Div. 2 (US and Canada)
V	ATEX - Equipment category 3 (zone 2)

Code	Approvals
3	IECEX Zone 2
A <sup>(1)</sup>	CSA (US and Canada) – Explosion-proof
F <sup>(2)</sup>	ATEX - Zone 1 IIC flameproof
I <sup>(2)</sup>	IECEX - Zone 1 IIC flameproof
G	Country-specific approval. Requires an R2 or R3 selection from the <i>Special tests and certificates, tests, calibrations and services (optional)</i> table.

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

Code	Application configuration <sup>(1)(2)</sup>
<b>Available with all calibration type codes</b>	
H	Line viscosity (4mA = 0cSt, 20mA = 25cSt)
J	Line viscosity (4mA = 0cSt, 20mA = 50cSt)
E	Line viscosity (4mA = 0cSt, 20mA = 100cSt)
M	Line viscosity (4mA = 0cSt, 20mA = 200cSt)
P	None
X <sup>(3)</sup>	ETO analog output configuration (customer data required)
<b>Available with only calibration type codes A, B, E, H, J and X</b>	
K	Line viscosity (4mA = 0cSt, 20mA = 500cSt)
F	Line viscosity (4mA = 0cSt, 20mA = 1000cSt)
<b>Available with only calibration type codes A and X</b>	
D	Line viscosity (4mA = 0cSt, 20mA = 12500cSt)
N	Line viscosity (4mA = 10cSt, 20mA = 12500cSt)
G	Line viscosity (4mA = 100cSt, 20mA = 12500cSt)

- (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, CSA approvals code A (C1D1) is valid only for groups C and D.
- (3) Requires factory option X.

Code	Calibration range
<b>Available with only Application Configuration codes H, J, E, or P</b>	
<b>Available with all Sensor Calibration type codes plus Application Configuration codes H, J, E, or P only</b>	
B	0.5 to 100cP
<b>Available with 3-inch or Free stream Sensor Calibration type codes A, B, E, H, J, and X plus Application Configuration codes M, K, F, or P only</b>	
C	0.5 to 1000cP
F	10 to 1000cP



Code	Calibration range
<b>Available with only Free stream Sensor Calibration type codes A and X plus Application Configuration codes D, N, or G only</b>	
D	0.5 to 12,500cP
E	10 to 12,500cP
G	100 to 12,500cP
<b>Available with all calibration type codes</b>	
X <sup>(1)</sup>	ETO calibration range

(1) Requires factory option X.

Code	Language (manual and software)
<b>Transmitter display language English</b>	
E	English installation manual and English configuration manual
I	Italian quick installation manual and English configuration manual
M	Chinese quick installation manual and English configuration manual
R	Russian quick installation manual and English configuration manual
<b>Transmitter display language French</b>	
F	French quick installation manual and English configuration manual
<b>Transmitter display language German</b>	
G	German quick installation manual and English configuration manual
<b>Transmitter display language Spanish</b>	
S	Spanish quick installation manual and English configuration manual

Code	Future option 1
Z	Reserved for future use

Code	Conduit connections
Z	Standard 0.5 in (13 mm) NPT fittings (no adapters)
B	M20 stainless steel adapters

Code	Factory options
Z	Standard product
X	Special order (ETO) product

Code	Special tests and certificates, tests, calibrations and services (optional) <sup>(1)</sup>
<b>Material quality examination tests and certificates</b>	
MC	Material Inspection Certificate 3.1 (Supplier Lot Traceability per EN 10204)
NC	NACE Certificate 2.1 (MR0175 and MR0103)
<b>Pressure testing</b>	
HT	Hydrostatic Test Certificate 3.1

Code	Special tests and certificates, tests, calibrations and services (optional) <sup>(1)</sup>
<b>Dye penetrant examination</b>	
D1	Dye Penetrant Test Package 3.1 (Sensor only; Liquid Dye Penetration NDE Qualification)
<b>Weld examination</b>	
WP	Weld Procedure Package (Weld Map, Weld Procedure Specification, Weld Procedure Qualification Record, Welder Performance Qualification)
<b>Positive material testing (select only one from this group)</b>	
PM	Positive Material Test Certificate 3.1 (without carbon content)
PC	Positive Material Test Certificate 3.1 (including carbon content)
<b>Sensor completion options</b>	
WG	Witness General
SP	Special Packaging
<b>Instrument tagging</b>	
TG	Instrument Tagging - customer information required (max. 24 characters)
<b>Country-specific approvals (select only one when Approvals option G is selected)</b>	
R2 <sup>(2)(3)</sup>	EAC Zone 1 - Hazardous area approval
R3 <sup>(2)(3)</sup>	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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