



## FT4A Insertion Flow Meter MODEL CODES

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### MODEL FT4A INSERTION METER

|                                               | Code    | Description                                                                                                 |
|-----------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|
| Parent Model No.*                             | FT4A    | Insertion Mass Flow meter; includes display, 4 to 20 mA and USB outputs                                     |
| Feature 1: Probe*                             | 06I     | Insertion meter with 6-inch probe                                                                           |
|                                               | 09I     | Insertion meter with 9-inch probe                                                                           |
| See "Calculating Probe Lengths" Below         | 12I     | Insertion meter with 12-inch probe                                                                          |
|                                               | 15I     | Insertion meter with 15-inch probe                                                                          |
|                                               | 18I     | Insertion meter with 18-inch probe                                                                          |
| 1" MNPT compression fitting included standard | 24I     | Insertion meter with 24-inch probe                                                                          |
|                                               | 30I     | Insertion meter with 30-inch probe                                                                          |
|                                               | 36I     | Insertion meter with 36-inch probe                                                                          |
|                                               | 15R     | 15" probe w/ 150-psi retractor & full port valve, 1" male NPT (or 3/4" with S2 option), 316 SS wetted parts |
|                                               | 18R     | 18" probe w/ 150-psi retractor & full port valve, 1" male NPT (or 3/4" with S2 option), 316 SS wetted parts |
|                                               | 24R     | 24" probe w/ 150-psi retractor & full port valve, 1" male NPT (or 3/4" with S2 option), 316 SS wetted parts |
|                                               | 30R     | 30" probe w/ 150-psi retractor & full port valve, 1" male NPT (or 3/4" with S2 option), 316 SS wetted parts |
|                                               | 36R     | 36" probe w/ 150-psi retractor & full port valve, 1" male NPT (or 3/4" with S2 option), 316 SS wetted parts |
| Feature 1b: Probe Diameter (Optional)*        | [blank] | Standard 3/4" diameter probe with 1" MNPT compression fitting included                                      |
|                                               | S2      | Optional 1/2" diameter probe with 3/4" MNPT compression fitting included                                    |
| Feature 2: Outputs*                           | P1      | 4 to 20mA + Pulse Output                                                                                    |
|                                               | RS      | 4 to 20mA + RS485 (Modbus RTU)                                                                              |
|                                               | BH      | 4 to 20mA/HART + Pulse Output                                                                               |

#### OPTIONS

| Part # | Description                                             |
|--------|---------------------------------------------------------|
| 107265 | Extra FT4A Instruction Manual                           |
| 100657 | Stainless Steel Tags                                    |
| 999995 | Certificate of Origin                                   |
| 999992 | Certificate of Conformance                              |
| 999986 | Material Certificates for Wetted Parts                  |
| 104870 | USB cable, A-male/mini USB-B male, 6' length            |
| 106415 | Teflon Ferrule Kit for 3/4" probe, 60 psi max. pressure |
| 102878 | Teflon Ferrule Kit for 1/2" probe, 60 psi max. pressure |

#### OPTIONS

| Part#     | Description                                                       |
|-----------|-------------------------------------------------------------------|
| 101331    | 3/4" MNPT compression fitting for 3/4" probe diameter             |
| 108570    | 1/2" MNPT compression fitting for 1/2" probe diameter (S2)        |
| 106728    | AC to 24VDC power converter with DIN mounting rail                |
| 890000    | Flow meter cleaned and bagged for Oxygen service                  |
| 106658(2) | M20x1.5 Wiring Connection Adapters (Qty. 2 per meter)             |
| 999004    | ModbusView Software License for Remote Connectivity               |
| 114144    | USB Remote Connectivity Kit (ModbusView RS485-to-USB Converter)   |
| 114143    | RJ45 Remote Connectivity Kit (ModbusView RS485-to-RJ45 Converter) |
| 109040    | Sun Shade accessory                                               |

Notes: \* The Parent Model Number and one of each Feature must be specified (Feature 1b is optional, leave blank for standard 3/4" probe diameter).

Example: FT4A-09I-RS

Example: FT4A-09I-S2-RS

See separate model code document for FC20 Flow Conditioners for use with insertion style flow meters.

Insertion flow meters can be installed in 1.5" pipes or larger. Select Inline flow meters for pipes smaller than 1.5" (40mm).

Calculating Probe Length - To position the Fox sensor in the center of the pipe, use the following calculation for probe length:

Probe Length = 1/2 the Pipe Diameter + Fitting Height [3" (76mm) default assumption] + Insulation Thickness + Retractor [10" (254mm) for codes 15R to 36R].

Round up to next probe size.

Example 1: Pipe ID = 10" (254mm), no insulation, no retractor: 5" (127mm) + 3" (76mm) + 0" (0mm) + 0" (0mm) = 8" (203mm). Round up to use 09I probe option.

Example 2: Pipe ID = 10" (254mm), no insulation, with retractor: 5" (127mm) + 3" (76mm) + 0" (0mm) + 10" (254mm) = 18" (457mm): 18R probe option



## FT4A Inline Flow Meter MODEL CODES

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### MODEL FT4A INLINE METER

|                             | Code  | Description                                                                      |
|-----------------------------|-------|----------------------------------------------------------------------------------|
| Parent Model No.*           | FT4A  | Inline Mass Flow Meter                                                           |
| Feature 1 : Flow Body Size* |       | <b>316 Stainless Steel Flow Body</b>                                             |
|                             | 05PS2 | 1/2 inch flow body (schedule 40), male NPT ends, 12" face-to-face length         |
|                             | 075P  | 3/4 inch flow body (schedule 40), male NPT ends, 12" face-to-face length         |
|                             | 10P   | 1 inch flow body (schedule 40), male NPT ends, 12" face-to-face length           |
|                             | 125P  | 1-1/4 inch flow body (schedule 40), male NPT ends, 12" face-to-face length       |
|                             | 15P   | 1-1/2 inch flow body (schedule 40), male NPT ends, 12" face-to-face length       |
|                             | 20P   | 2 inch flow body (schedule 40), male NPT ends, 12" face-to-face length           |
|                             | 25P   | 2-1/2 inch flow body (schedule 40), male NPT ends, 18" face-to-face length       |
|                             | 30P   | 3 inch flow body (schedule 40), male NPT ends, 18" face-to-face length           |
|                             | 05FS2 | 1/2 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length   |
|                             | 075F  | 3/4 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length   |
|                             | 10F   | 1 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length     |
|                             | 125F  | 1-1/4 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length |
|                             | 15F   | 1-1/2 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length |
|                             | 20F   | 2 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length     |
|                             | 25F   | 2-1/2 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length |
|                             | 30F   | 3 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length     |
|                             | 40F   | 4 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length**   |
|                             | 60F   | 6 inch flow body (schedule 40), 150# RF flange ends, 24" face-to-face length**   |
|                             | 15G   | 1-1/2 inch flow body (schedule 40), 300# RF flange ends, 12" face-to-face length |
|                             | 20G   | 2 inch flow body (schedule 40), 300# RF flange ends, 12" face-to-face length     |
|                             | 25G   | 2-1/2 inch flow body (schedule 40), 300# RF flange ends, 18" face-to-face length |
|                             | 30G   | 3 inch flow body (schedule 40), 300# RF flange ends, 18" face-to-face length     |
|                             | 40G   | 4 inch flow body (schedule 40), 300# RF flange ends, 18" face-to-face length**   |
|                             | 60G   | 4 inch flow body (schedule 40), 300# RF flange ends, 24" face-to-face length**   |
|                             |       | <b>A106 Grade B Carbon Steel Flow Body (w/ A105 flanges if ordered)***</b>       |
|                             | 20PC  | 2 inch flow body (schedule 40), male NPT ends, 12" face-to-face length           |
|                             | 25PC  | 2-1/2 inch flow body (schedule 40), male NPT ends, 18" face-to-face length       |
|                             | 30PC  | 3 inch flow body (schedule 40), male NPT ends, 18" face-to-face length           |
|                             | 20FC  | 2 inch flow body (schedule 40), 150# RF flange ends, 12" face-to-face length     |
|                             | 25FC  | 2-1/2 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length |
|                             | 30FC  | 3 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length     |
|                             | 40FC  | 4 inch flow body (schedule 40), 150# RF flange ends, 18" face-to-face length**   |
|                             | 60FC  | 6 inch flow body (schedule 40), 150# RF flange ends, 24" face-to-face length**   |
|                             | 20GC  | 2 inch flow body (schedule 40), 300# RF flange ends, 12" face-to-face length     |
|                             | 25GC  | 2-1/2 inch flow body (schedule 40), 300# RF flange ends, 18" face-to-face length |
|                             | 30GC  | 3 inch flow body (schedule 40), 300# RF flange ends, 18" face-to-face length     |
|                             | 40GC  | 4 inch flow body (schedule 40), 300# RF flange ends, 18" face-to-face length**   |
|                             | 60GC  | 4 inch flow body (schedule 40), 300# RF flange ends, 24" face-to-face length**   |
| Feature 2: Outputs*         | P1    | 4 to 20mA + Pulse Output                                                         |
|                             | RS    | 4 to 20mA + RS485 (Modbus RTU)                                                   |
|                             | BH    | 4 to 20mA/HART + Pulse Output                                                    |

### OPTIONS

| Part#     | Description                                                       |
|-----------|-------------------------------------------------------------------|
| 107265    | Extra FT4A Instruction Manual                                     |
| 100657    | Stainless Steel Tags                                              |
| 999992    | Certificate of Conformance                                        |
| 999995    | Certificate of Origin                                             |
| 999986    | Material Certificates for Wetted Parts                            |
| 109040    | Sun Shade accessory                                               |
| 104870    | USB Cable, A-male/mini USB-B male, 6' length                      |
| 106728    | AC to 24VDC power converter with DIN mounting rail                |
| 890000    | Flow meter cleaned and bagged for Oxygen service                  |
| 106658(2) | M20x1.5 Wiring Connection Adapters (Qty. 2 per meter)             |
| 990099    | Canadian Registration Number (CRN) engraved on flow body***       |
| 999004    | ModbusView Software License for Remote Connectivity               |
| 114144    | USB Remote Connectivity Kit (ModbusView RS485-to-USB Converter)   |
| 114143    | RJ45 Remote Connectivity Kit (ModbusView RS485-to-RJ45 Converter) |

Notes: \* The Parent Model Number and one of each Feature must be specified.

Example: FT4A-20P-BH

\*\* If max. flow rate above 2,500 SCFM (4,250 NM3H), consult factory for application review

\*\*\* Canadian Registration Number (CRN), P/N 990099, is not available on carbon steel flow bodies