

FS10A-

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Block No. 1 2 3 4 5 6 7 8 9

INSTRUCTIONS: To order an **FS10A** in an integral configuration, please fill in each numbered block above by selecting required codes from the corresponding categories below. Use of any "W" or "*" codes requires prior approval from FCI. For special data, documentation, test reports or required quality reports, refer to FCI's Engineering and Quality Assurance Order Information Sheets (OIS).

Code	[BLOCK 1] Base Unit Type and Flow Orientation
1	Integral configuration with flow direction in tube tee = horizontal right-to-left or vertical up; in SP76 adapter, flow side-to-center port
2	Integral configuration with flow direction in tube tee = horizontal left-to-right or vertical down; in SP76 adapter, flow center-to-side port
Code	[BLOCK 2] Flow Element Material and Temperature Service
A	316L stainless steel probe with Hastelloy-C22 thermowells; -40 °F to 250 °F [-40 °C to 121 °C]; integral ¹⁰
E	All Hastelloy-C22 probe and thermowells; -40 °F to 250 °F [-40 °C to 121 °C]; integral ¹⁰
W	Other, agency approved, customer specified
Code	[BLOCK 3] Process Connection/Adapter
0	None, not required ¹
1	1/4" tube tee; 316L stainless steel
2	3/8" tube tee; 316L stainless steel
3	1/2" tube tee; 316L stainless steel
4	SP76 adapter base plate; 316L stainless steel
5	1/8" tube adapter in 1/4" tube tee with 0.0940" ID injection tube <i>Increases low flow rate sensitivity to 25 cc/min (gas); 316 stainless steel</i>
6	1/8" tube adapter in 1/4" tube tee with 0.0625" ID injection tube <i>Increases low flow rate sensitivity to 10 cc/min (gas); 316 stainless steel</i>
W	Other, agency approved, customer specified
Code	[BLOCK 4]
0	<i>Block 4 Code is always "0" with FS10A integral version</i>
Code	[BLOCK 5] Power and Signal Output Connection Type
1	Fixed, watertight cable gland to wire pigtail; 15' [5 m] ¹³
2	M12 connector only <i>No cable supplied; connecting cable supplied by customer</i>
3	M12 at FS10A and supplied with mating M12 to cable pigtail; 6' [2 m]
4	M12 at FS10A and supplied with mating M12 to cable pigtail; 15' [5 m]
5	M12 at FS10A and supplied with mating M12 to cable pigtail; 30' [10 m]
6	1/2" (male) conduit adapter with fixed, watertight cable gland to wire pigtail; 15' [5 m] ¹³
W	Agency approved, customer specified
Code	[BLOCK 6] Outputs <i>All models include RS232C Serial I/O</i>
D	Open collector ¹¹ + 4-20 mA trending output flow monitor ⁶
E	Relay output + 4-20 mA trending output flow monitor ⁶
W	Agency approved, customer specified
Code	[BLOCK 7] Media Service
0	<i>Block 7 Code always "0"</i>
Code	[BLOCK 8] Factory Set-Up and Calibration
0	Not required <i>User field set</i>
B	Switch configuration and set-up for air or water + factory pre-setting of trip point (on air or water) ³
Code	[BLOCK 9] Agency Approvals <i>CE marking always included</i>
0	Not required
1	FM, FMc (CSA)
2	ATEX, IECEx ¹³
5	EAC / TR CU
*	Other <i>Contact FCI for other approvals and conditions of use</i>

Notes

1. Code 0 in Block 3 is not recommended when factory pre set-up is specified (Block 8, Code B). Best accuracy is obtained when calibrated together with factory supplied adapter (Block 3, Codes 1-7 or W)
3. When Code B is specified in Block 8, a completed FCI Application Data Sheet (ADS) must be submitted with order
6. 4-20 mA output may be assigned to temperature. Contact FCI for information on how to order and specify
10. Enclosure/electronics maximum temperature is 160 °F [71 °C]
11. N-channel, MOSFET
13. Cable gland not available with ATEX/IEC approval

FS10A-

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Block No. 1 2 3 4 5 6 7 8 9

INSTRUCTIONS: To order an **FS10A** in a remote configuration, please fill in each numbered block above by selecting required codes from the corresponding categories below. Use of any "W" or "*" codes requires prior approval from FCI. For special data, documentation, test reports or required quality reports, refer to FCI's Engineering and Quality Assurance Order Information Sheets (OIS).

Code	[BLOCK 1] Base Unit Type																																																											
A	Remote configuration with panel mount adaptor P/N 025719-01																																																											
B	Remote configuration with surface mount adaptor P/N 025442-01																																																											
<i>With FCI supplied Ex d cable gland and adapter installed on remote flow element; Requires selection of Code H, J, K, E, F, G or W in Block 4</i>																																																												
C	Remote configuration with panel mount adaptor P/N 025719-01 and nickel plated brass cable gland + adapter																																																											
D	Remote configuration with surface mount adaptor P/N 025442-01 and nickel plated brass cable gland + adapter																																																											
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Code	[BLOCK 6] Outputs <i>All models include RS232C Serial I/O</i>
D	Open collector ¹¹ + 4-20 mA trending output flow monitor ⁶
E	Relay output + 4-20 mA trending output flow monitor ⁶
W	Agency approved, customer specified
Code	[BLOCK 7] Media Service
0	<i>Block 7 Code always "0"</i>
Code	[BLOCK 8] Factory Setup
0	Not required <i>User field set</i>
B	Switch configuration and set-up for air or water + factory pre-setting of trip point (on air or water) ³
Code	[BLOCK 9] Agency Approvals <i>CE marking always included</i>
0	Not required
1	FM, FMc (CSA)
2	ATEX, IECEx ¹³
5	EAC / TR CU
*	Other <i>Contact FCI for other approvals and conditions of use</i>

Notes

1. Code 0 in Block 3 is not recommended when factory pre set-up is specified (Block 8, Code B). Best accuracy is obtained when calibrated together with factory supplied adaptor (Block 3, Codes 1-7 or W)
2. Extended temperature unit (Block 2, Code C or G) requires selection of PTFE jacketed, potted cable at flow element (Block 4, Code E, F, G)
3. When Code B is specified in Block 8, a completed FCI Application Data Sheet (ADS) must be submitted with order
6. 4-20mA output may be assigned to temperature. Contact FCI for information on how to order and specify
10. Enclosure/electronics maximum temperature is 160 °F [71 °C]
11. N-channel, MOSFET
12. Removable M12 connector is required to facilitate use of Ex d cable gland or small diameter conduit in Ex D Zone 1/Div 1 installations
13. Cable gland not available with ATEX/IEC approval

Part Number	Description
Tube Tees and Adapters	
021736-01	1/4" tube tee X 1/4" NPTF, 316L stainless steel
021736-02	3/8" tube tee X 1/4" NPTF, 316L stainless steel
021736-03	1/2" tube tee X 1/4" NPTF, 316L stainless steel
019897-01	SP76 adapter base plate
019524-01	1/4" tube tee X 1/4" NPTF, 316L stainless steel <i>Swagelok® brand</i>
019524-02	3/8" tube tee X 1/4" NPTF, 316L stainless steel <i>Swagelok brand</i>
019524-03	1/2" tube tee X 1/4" NPTF, 316L stainless steel <i>Swagelok brand</i>
021865-94	Pair of 1/8" tube adapters, fits into 1/4" tube tee (not included) with 0.094 ID injection tube
021865-63	Pair of 1/8" tube adapters fits into 1/4" tube tee (not included) with 0.063 ID injection tube
019524-10	6 mm tube X 1/4" NPTF; 316L stainless steel <i>Swagelok brand</i>
019524-11	8 mm tube X 1/4" NPTF; 316L stainless steel <i>Swagelok brand</i>
019524-12	12 mm tube X 1/4" NPTF; 316L stainless steel <i>Swagelok brand</i>
025569-94	Pair of 3 mm tube adapters, fits into 6 mm tube tee (not included) with 0.094 ID injection tube
025569-63	Pair of 3 mm tube adapters, fits into 6 mm tube tee (not included) with 0.063 ID injection tube
022172-01	PTFE tee, 1/4" NPT female branch X 1/4" tube connections; nuts and branch band are PVDF
Cable Gland Accessories for Use with Ex d Remote Probe	
024499-01	Adapter, 1/2" X 1/2", 316L stainless steel
016341-14	Cable gland, 316L stainless steel
024499-02	Adapter, 1/2" X 1/2", nickel plated brass; 212 °F [100 °C] maximum
016341-02	Cable gland, nickel plated brass; 212 °F [100 °C] maximum
Power and Output Connection Cables For Use With M12 Interface	
	For Use With Length
022474-A02	M12(f)-to-pigtail w/wire markers, polyurethane jacketed Relay output 2 m [6']
022474-A05	M12(f)-to-pigtail w/wire markers, polyurethane jacketed Relay output 5 m [15']
022474-A10	M12(f)-to-pigtail w/wire markers, polyurethane jacketed Relay output 10 m [30']
022474-B02	M12(f)-to-pigtail w/wire markers, polyurethane jacketed Open collector N-channel output 2 m [6']
022474-B05	M12(f)-to-pigtail w/wire markers, polyurethane jacketed Open collector N-channel output 5 m [15']
022474-B10	M12(f)-to-pigtail w/wire markers, polyurethane jacketed Open collector N-channel output 10 m [30']
021806-01	Field wireable M12(m) connector for use on remote probe cable connection to electronics <i>Removal allows adaptor and cable gland to be assembled on the probe</i> Remote cable interface n/a
021806-02	Field wireable M12(f) connector to mate with power/output connector on electronics Power/output cable n/a
024625-XXX	Power/output cable with removeable M12(l) connector to pigtails with wire markers, polyurethane jacketed; select length (XXX) in feet (i.e. 20 feet = 020) Power/output cable Per P/N

Part Number	Description
Remote Mounting Adapters and Miscellaneous	
025719-01	Remote electronics panel mount adapter for FS10X – A through – F; includes O-ring seal at panel and tube enclosure
025442-01	Remote electronics surface mount adapter (Polyamide PA-12) for FS10X – A through – F
021391-01	Remote electronics surface mount bracket; metal – requires panel mount configuration FS10X – 3 through – 8 or panel adapter P/N 025719-01 with FS10X – A, – C, or – E
025529-01	Silicon protection boot
RS232C-to-PC Interface	
022083-02	RS232C-to-PC Interface Complete Kit includes: Power supply and interface box P/N 022083-01 DB9-to-USB converter with USB PC driver disk P/N 021712-05 2.5 mm stereo plug-to-DB9(f) connector P/N 021712-04 Interconnecting cable; M12(m)-to-M12(f), 6' [2 m] P/N 021438-06E02 Power connection cable, M12(m)-to-pigtail, 6' [2 m] P/N 022411-01 Connectors and wiring, RS232C-to-2.5 mm stereo jack P/N 022421-01 (3) AC power cords. One each compatible for N. America, EU, and UK use
Individual Parts and Adapters for RS232C-to-PC Interfacing <i>Refer to FS10A Operator's Manual for diagrams and installation recommendations</i>	
022083-01	Power supply and interface box
021712-02	2.5 mm stereo plug jack-to-USB plug <i>On remote models</i>
021712-04	2.5 mm stereo plug-to-DB9(f) connector
022726-01	2.5 mm stereo jack extension cable, 1 m [3']
021712-05	DB9-to-USB converter with USB PC driver disk
022411-01	Power connection cable, M12(m)-to-pigtail, 2 m [6']
021438-06E02	Interconnecting cable; M12(m)-to-M12(f), 2 m [6']
022421-01	Connectors and wiring, RS232C-to-2.5 mm stereo jack
Speciality Connector / Adapters for OEMs	
021712-01	FS10A circuit board's RS232C 4-pin terminal-to-USB plug <i>Includes P/N 021712-05 and 021712-03</i>
021712-03	FS10A circuit board's RS232C 4-pin terminal connector-to-DB9(f) <i>OEM</i>
022542-A	FS10A circuit board's 6-pin power and output connector-to-pigtail <i>For use with relay output configurations</i>
022542-B	FS10A circuit board's 6-pin power and output connector-to-pigtail <i>For use with MOSFET-to-gnd configurations</i>