

ST75 -

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Block No. 1 2 3 4 5 6 7

INSTRUCTIONS: To order an **ST75**, 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, Enclosure Style, Power Supply <i>Enclosures: all aluminum, NEMA4X/IP67 rated, epoxy coated</i>			
1	Blind, integral transmitter, with two 1/2" FNPT cable entries		
2	Integral transmitter with local digital display, with two 1/2" FNPT cable entries		
4	Remote transmitter with two 1/2" FNPT cable entries and with digital display (specify cable length in Block 7)		
A	Blind, integral transmitter, with two M20x1.5 cable entries		
B	Integral transmitter with local digital display, with two M20x1.5 cable entries		
C	Remote transmitter with two M20x1.5 cable entries and with digital display (specify cable length in Block 7)		
Code [BLOCK 2] Pipe Installation, Display/Transmitter Mounting Orientation and Flow Direction			
Code	Horizontal Pipe	Code	Vertical Pipe
F	Top mount, display facing forward, flow left-to-right	M	Side mount left, display facing forward, flow up
G	Top mount, display facing forward, flow right-to-left	N	Side mount right, display facing forward, flow up
H	Side mount, display facing up, flow left-to-right	P	Side mount left, display facing forward, flow down
J	Side mount, display facing up, flow right-to-left	R	Side mount right, display facing forward, flow down
K	Side mount, display facing down, flow left-to-right	<i>For visual representation, refer to FCI drawing number 020943</i>	
L	Side mount, display facing down, flow right-to-left		
Code [BLOCK 3] Power Supply			
1	DC; 18 - 36 V		
2	AC; 85 - 265 V, 50/60 Hz		
Code [BLOCK 4] Line Size and Process Connection		Tee Body Length	
A	1/4" FNPT, 150 lb pipe tee	1.54" [39,12 mm]	
B	1/2" FNPT, 150 lb pipe tee	2.28" [57,91 mm]	
C	3/4" FNPT, 150 lb pipe tee	2.56" [65,02 mm]	
D	1" FNPT, 150 lb pipe tee	2.92" [74,17 mm]	
E	1 1/2" FNPT, 150 lb pipe tee	3.82" [97,03 mm]	
F	2" FNPT, 150 lb pipe tee	4.66" [118,40 mm]	
G	1/4" Tubing tee with compression fittings for use with 1/4" Tubing	2.34" [59,44 mm]	
H	1/2" Tubing tee with compression fittings for use with 1/2" Tubing	2.84" [72,14 mm]	
J	1" Tubing tee with compression fittings for use with 1" Tubing	3.86" [98,04 mm]	

Code [BLOCK 5] Gas Medium and System Calibration in Actual Tee Fitting ¹	
B	Air
C	Air equivalence (oxygen, chlorine, ammonia, etc.)
E	Nitrogen, helium, argon, CO ₂ , compressed air
1	Natural gas (90% or greater methane content)
2	Natural gas (90% or greater methane content); line sizes smaller than 1 1/2"
F	Hydrocarbons (e.g. ethane, methane, propane, ethylene, propylene, mixed)
H	Air, compressed air
J	Air equivalence (e.g. oxygen, chlorine, ammonia, etc.)
K	Nitrogen, argon
L	CO ₂ , ethylene, ethane
M	Propane, propylene
N	Butane, pentane
P	Methane, helium
Code [Block 6] Calibration ² and Calibration Temperature Conditions	
0	Standard 2% calibration and conditions 40°F to 100°F [4°C to 38°C]
A	Standard 2% calibration and extended temperature compensation 0°F to 250°F [-18°C to 121°C]
M	High accuracy 1% calibration and standard conditions 40°F to 100°F [4°C to 38°C]
N	High accuracy 1% calibration and extended temperature compensation 0°F to 250°F [-18°C to 121°C]
Code [Block 7] Interconnecting Cable Length for Remote Configurations ³	
0	Not required (specify with integral configurations)
A	10' [3 meters]
B	25' [7,6 meters]
C	50' [15 meters]
W	Custom length (cannot exceed 50' [15 meters])

Notes

1. Must use FCI's AVAL program to determine letter code. AVAL is a custom flow meter optimizer program that considers gas medium, flow range, pipe size and other conditions to determine best calibration and supplies. FCI letter code to be used here. AVAL is available on-line at www.fluidcomponents.com or consult a local FCI representative/distributor.
2. Calibration accuracy is ±% of reading, ±0.5% of full scale.
3. Fixed cable length with instrument calibrated together as a matched set. Cable may be coiled but not cut.

Certified Material Test Report (CMTR) not available with ST75, see ST75V if required.

Accessories

Part Number	Description
FC88	Portable hand-held communicator
014108-02	PC interface communications kit, for RS232 serial port connection
DM10-FC	DM10 with FM and CSA approvals
DM10-KIT1	Panel mount kit for DM10
DM10-KIT2	2 inch (52 mm) pipe mount kit for DM10 (stainless steel)
DM15	Digital display/readout, LED 115/230 Vac powered
DM15-ALM	Same as DM-15 with user programmable alarm limit, relay output

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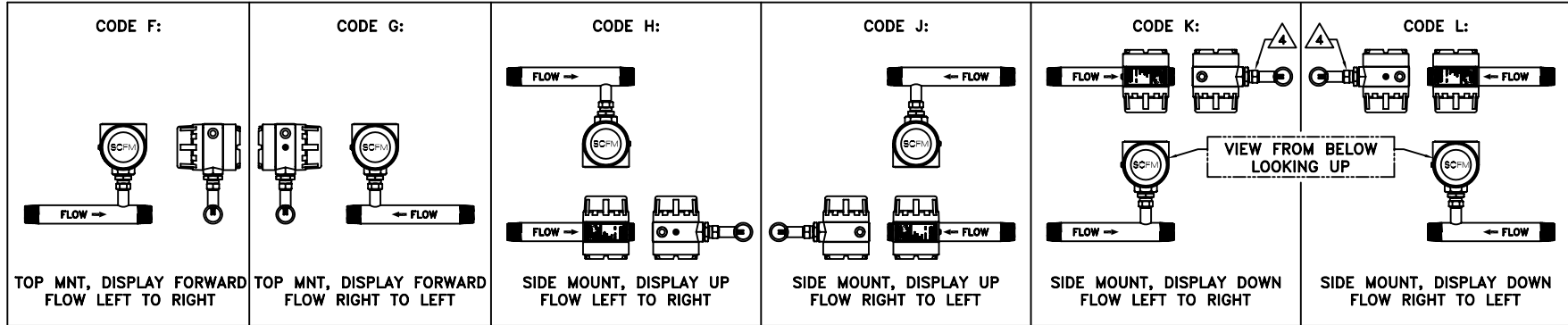
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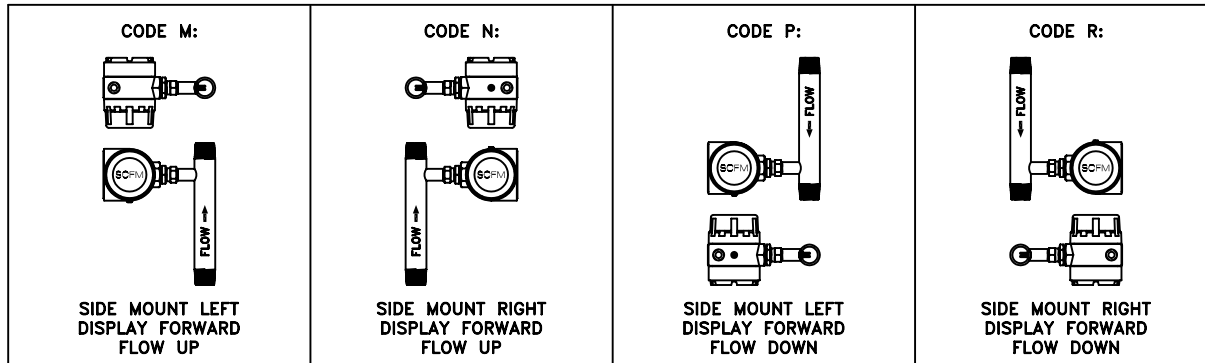
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REVISIONS		
REV	DESCRIPTION	DATE
A	MAJOR CHANGE, SEE DCN (REVISED AND REDRAWN)	8/22/11

INTEGRAL HORIZONTAL MOUNTINGS



INTEGRAL VERTICAL MOUNTINGS



▲ FLOW ARROW ON TOP AS SHOWN

- THE LCD DISPLAY CAN BE USER ROTATED AND VIEWED AT ANY 90 DEGREE ORIENTATION.
- IN REMOTE ELECTRONIC CONFIGURATIONS, THE LOCAL ENCLOSURE WILL BE ORIENTED AS SHOWN WITH SOLID COVER ON BOTH SIDES. INTERCONNECTING TERMINALS LOCATED INSIDE.

1. THIS DRAWING IS GENERIC IN NATURE, FOR SPECIFIC MODEL TYPE, ORIENTATION, CUSTOMER PROCESS CONNECTION, ETC, REFER TO IO&M MANUAL.

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES		CONTRACT NO.		FLUID COMPONENTS INTERNATIONAL LLC SAN MARCOS, CA 92078	
DECIMALS	ANGULAR	APPROVALS		TITLE	
NEXT ASSY USED ON		APPROVALS		ST75/ST75V, ASSEMBLY ORIENTATION	
APPLICATION		DESIGN	L. FUSTING	7/16/07	
THIRD ANGLE PROJECTION		QUAL.	EW	3/27/08	
WORK SURFACE	WORK PEG	INFO	S. REED	3/28/08	
DO NOT SCALE DRAWING		QA	R. OGLE	3/21/08	
SIZE	D	CHG CODE	64818	DWG NO.	020943
SCALE	NONE	SHEET	1 OF 1	REV	A

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