ISM 5.0 -

Model



ISM 5.0 Insertion Electromagnetic Meter

Approximate shipping weight: 6 lbs / 2.7 kg

STANDARD FEATURES:

- dual-electrode sensor
- watertight, airtight, dust-proof cast aluminum electronics enclosure
- analog output selectable 4-20mA, 0-5V or 0-10V
- frequency output 0-500Hz
- pulse output scalablepower input 20-28VDC or 20-28VAC
- signal cable length 25 ft (7.6 m) multi-conductor, submersible
- NIST traceable calibration certificate
- 1 Manual Installation and Operation

FLOW DIRECTION

Standard single direction	A
Bi-directional with 2 pulse outputs and flow direction relay	В

POWER INPUT

METER LENGTH (bottom of enclosure to bottom of sensing head)

20" (508 mm) for 3-12" nominal pipe size (DN 80-300 mm)	Α
24" (610 mm) for 14-72" nominal pipe size (DN 350-1800 mm)	В
Custom	С

OPTIONS AND ACCESSORIES

SEPARATE ADDITIONAL LENGTH SIGNAL CABLE, submersible PVC jacketed, multi-conductor QTY CODE DESCRIPTION

~	0022	22001 11011
	25 MXC	25 ft (7.6 m) length
	50 MXC	50 ft (15 m) length
	100 MXC	100 ft (30 m) length
	•	
GROUND	ING RINGS AND PROE	BES
	HTGP2	1 Pair of Hot Tap Stainless Steel Grounding Probes (requires installation kit for each
	HIGP2	ground probe, ordered separately - see FM STD Kits tab)
	HTGP1	1 (single) Hot Tap Stainless Steel Grounding Probe (requires installation kit for each
	IIIGFI	ground probe, ordered separately - see FM STD Kits tab)
	GR3	3" Pair of Grounding Rings, ANSI Class 150
	GR4	4" Pair of Grounding Rings, ANSI Class 150
	GR6	6" Pair of Grounding Rings, ANSI Class 150
	GR8	8" Pair of Grounding Rings, ANSI Class 150
	GR10	10" Pair of Grounding Rings, ANSI Class 150
	GR12	12" Pair of Grounding Rings, ANSI Class 150
	GR14	14" Pair of Grounding Rings, ANSI Class 150
	GR16	16" Pair of Grounding Rings, ANSI Class 150
	GR18	18" Pair of Grounding Rings, ANSI Class 150
REMOTE	DISPLAYS	
	D-100-MOD-120	Microprocessor-based rate/total display with 2 auxiliary analog inputs, plus
	D 100 WOD 120	MODBUS®-RTU RS485 or TCP/ IP serial interface. 120VAC input power
	D-100-MOD-024	Microprocessor-based rate/total display with 2 auxiliary analog inputs, plus
	D 100 WOD 024	MODBUS®-RTU RS485 or TCP/ IP serial interface. 24VAC input power
	D-100-MOD-240	Microprocessor-based rate/total display with 2 auxiliary analog inputs, plus
		MODBUS®-RTU RS485 or TCP/ IP serial interface. 240VAC input power
	D-1201-01-120	Display Module: 1 LCD, flow rate and/or total. 120VAC input power

Display Module: 1 LCD, flow rate and/or total. 24VAC input power

Display Module: 1 LCD, flow rate and/or total. 240VAC input power

Display Module: 1 LCD (rate only) with directional LED indicators. 120VAC input power Display Module: 1 LCD (rate only) with directional LED indicators. 24VAC input power

Display Module: 1 LCD (rate only) with directional LED indicators. 240VAC input power

D-1201-01-024

D-1201-01-240

DB-1201-01-120

DB-1201-01-024 DB-1201-01-240

ISM 5.0



OPTIONS AND ACCESSORIES

		STANDARD HARDWARE IN	ISTALLATION KITS
CARR	ON STEEL/BLACK IROI	N WEI DED PIPE	
QTY	CODE	KIT DESCRIPTION	KIT INCLUDES
	F-STD-INSTL1DW	Installation kit for 3" and larger welded steel domestic water pipes (Valve & nipple comply with NSF/ANSI 61 & 372)	1" full port bronze ball valve 1" weld-on carbon steel branch outlet 1" brass close nipple
	F-STD-INSTL5	Stainless steel installation kit for 31" and larger welded steel pipe	" I full port SS ball valve " SS close nipple " " weld-on carbon steel branch outlet
COPPI	ER TUBE		
	F-STD-INSTL4	Installation kit for 3" copper tube (Complies with NSF/ANSI 61 & 372)	1" full port bronze ball valve 1"copper street adapter with MNPT threads Copper tee with 1" outlet
	F-STD-INSTL9	Installation kit for 4" copper tube (Complies with NSF/ANSI 61 & 372)	1" full port bronze ball valve 1"copper street adapter with MNPT threads Copper tee with 1" outlet
CEME	NT-LINED DUCTILE IRO	ON	
	F-STD-INSTL10	Installation kit for 3" to 6" cement-lined ductile iron (Complies with NSF/ANSI 61 & 372)	1" full port bronze ball valve 1" brass close nipple Ductile iron saddle with 1" outlet*
	F-STD-INSTL11	Installation kit for 8" to 24" cement-lined ductile iron (Complies with NSF/ANSI 61 & 372)	1" full port bronze ball valve 1" brass close nipple Ductile iron saddle with 1" outlet*
	F-STD-INSTL12	Stainless steel / ductile Iron installation kit for 3" to 6" cement-lined ductile iron Pipe	1" full port SS ball valve 1" SS close nipple Ductile iron saddle with 1" outlet
	F-STD-INSTL12A	Stainless steel / ductile iron installation kit for 8" to 16" cement-lined ductile iron pipe	1" full port SS ball valve 1" SS close nipple Ductile iron saddle with 1" outlet
PVC o	r CARBON STEEL		
	F-STD-INSTL13	Installation kit for 3" to 6" PVC pipe (Complies with NSF/ANSI 61 & 372)	1" full port bronze ball valve 1" brass close nipple Ductile iron saddles for Sch std./40/80 pipe with 1" NPT outlets
	F-STD-INSTL14	Installation kit for 8" to 14" PVC pipe (Complies with NSF/ANSI 61 & 372)	1" full port bronze ball valve 1" brass close nipple Ductile iron saddles for Sch std./40/80 pipe with 1" NPT outlets
HDPE			
	F-STD-INSTL13H	Installation kit for 4" to 12" HDPE pipe (Complies with NSF/ANSI 61 & 372)	1" full port bronze ball valve 1" brass close nipple Stainless steel saddles for HDPE pipe with 1" NPT outlets
	F-STD-INSTL14H	Installation kit for 14" to 20" HDE pipe (Complies with NSF/ANSI 61 & 372)	1" full port bronze ball valve 1" brass close nipple Stainless steel saddles for HDPE pipe with 1" NPT outlets
PVC			
	F-STD-INSTL15	Stainless steel/PVC installation kit for 3" to 4" PVC pipe (for process applications)	1" full port ball valve 1" SS close nipple Sch. 80 PVC saddle with 1" outlet
	F-STD-INSTL16	Stainless steel/PVC installation kit for 5" & 6" PVC (for process applications)	1" full port ball valve 1" SS close nipple Sch. 80 PVC saddle with 1" outlet
	F-STD-INSTL17	Stainless steel installation kit for 8" to 12" PVC pipe (for process applications)	1" full port SS ball valve 1" SS close nipple SS clamp-on saddle with 1" outlet
STAIN	LESS STEEL		
			a 4" full port CC hall valva

Stainless steel installation kit for 3" and larger welded stainless steel pipe

Standard Delivery: 2 Weeks

F-STD-INSTL18

• 1" full port SS ball valve

1" SS close nipple1" SS weld-on branch outlet



HOT TAP HARDWARE INSTALLATION KITS

		HOT TAF HANDWARE INS	TALLATION NTS
CARB	ON STEEL/BLACK IROI	N (WELDED PIPE)	
QTY	CODE	KIT DESCRIPTION	KIT INCLUDES
	F-HTAP-INSTL2	Hot tap installation kit for 3" and larger welded steel pipe	 1 ¼" full port bronze ball valve 1 ¼" brass close nipple 1 ¼" x 1" brass reducing bushing 1 ¼" weld-on carbon steel branch outlet
	F-HTAP-INSTL2DW	Hot tap installation kit for 3" and larger welded steel domestic water pipes (Valve, nipple & bushing comply with NSF/ANSI 61 & 372)	 1 ½" full port bronze ball valve 1 ½" brass close nipple 1 ½" x 1" brass reducing bushing 1 ½" weld-on carbon steel branch outlet
	F-HTAP-INSTL6	Stainless steel hot tap installation kit for 3" and larger welded steel pipe	 1 ½" full port SS ball valve 1 ½" SS close nipple 1 ½" x 1" SS reducing bushing 1 ½" weld-on carbon steel branch outlet
CARB	ON STEEL or PVC PIPE	WITH SADDLES	
<u> </u>	F-HTAP-INSTL19A	Hot tap installation kit for Sch Std, Sch 40 or Sch 80 steel or PVC pipe (3" to 6") (Complies with NSF/ANSI 61 & 372)	1 ¼" full port bronze ball valve 1 ¼" brass close nipple 1 ¼" x 1" brass reducing bushing Ductile iron saddle with 1 ¼" outlet
	F-HTAP-INSTL19B	Hot tap installation kit for Sch Std, Sch 40 or Sch 80 steel or PVC pipe (8" to 14") (Complies with NSF/ANSI 61 & 372)	1 ½" full port bronze ball valve 1 ½" brass close nipple 1 ½" x 1" brass reducing bushing Ductile iron saddle with 1 ½" outlet
	F-HTAP-INSTL19C	Hot tap installation kit for Sch Std, Sch 40 or Sch 80 steel or PVC pipe (16" to 26") (Complies with NSF/ANSI 61 & 372)	 1 ½" full port bronze ball valve 1 ½" brass close nipple 1 ½" x 1" brass reducing bushing Ductile iron saddle with 1 ½" outlet
	F-HTAP-INSTL20A	Stainless steel hot tap installation kit for Sch Std, Sch 40 or Sch 80 steel or PVC pipe (3" to 6")	 1 ¼" full port SS ball valve 1 ¼" SS close nipple 1 ¼" x 1" SS reducing bushing Bronze/ductile iron saddle with 1 ¼" outlet
	F-HTAP-INSTL20B	Stainless steel hot tap installation kit for Sch Std, Sch 40 or Sch 80 steel or PVC pipe (8" to 14")	 1 ¼" full port SS ball valve 1 ¼" SS close nipple 1 ¼" x 1" SS reducing bushing Bronze/ductile iron saddle with 1 ¼" outlet
	F-HTAP-INSTL20C	Stainless steel hot tap installation kit for Sch Std, Sch 40 or Sch 80 steel or PVC pipe (16" to 26")	 1 ½" full port SS ball valve 1 ½" SS close nipple 1 ½" x 1" SS reducing bushing Bronze/ductile iron saddle with 1 ½" outlet
PVC P	PIPE WITH STANLESS S	STEEL SADDLES	
	F-HTAP-INSTL29	Stainless steel hot tap installation kit for 3" to 6" PVC pipe	• 1 ½" full port SS ball valve • 1 ½" SS close nipple • 1 ½" x 1" SS reducing bushing • SS saddle with 1 ½" outlet
	F-HTAP-INSTL30	Stainless steel hot tap installation kit for 8" to 12" PVC pipe	• 1 ½" full port SS ball valve • 1 ½" SS close nipple • 1 ½" x 1" SS reducing bushing • SS saddle with 1 ½" outlet
COPP	ER TUBE WITH SADDL	ES .	
	F-HTAP-INSTL22	Hot tap installation kit for 3" to 6" copper tube. (Complies with NSF/ANSI 61 & 372)	 1 ¼" full port bronze ball valve 1 ¼" brass close nipple 1 ¼" x 1" brass reducing bushing SS saddle with 1 ¼" outlet
HDPE	PIPE WITH SADDLES		
	F-HTAP-INSTL27H	Hot tap installation kit for 4" to 12" HDPE pipe (Complies with NSF/ANSI 61 & 372)	 1 ¼" full port bronze ball valve 1 ¼" brass close nipple 1 ¼" x 1" brass reducing bushing Ductile iron or SS saddle with 1 ¼" outlet
	F-HTAP-INSTL28H	Hot tap installation kit for 14" to 20" HDPE pipe (Complies with NSF/ANSI 61 & 372)	 1 ¼" full port bronze ball valve 1 ½" brass close nipple 1 ½" x 1" brass reducing bushing SS saddle with 1 ½" outlet

• 1 ¼" x 1" brass reducing bushing • SS saddle with 1 ¼" outlet

Effective: January 01, 2018



Order Form ISM 5.0

HOT TAP HARDWARE INSTALLATION KITS cont'd

CEMENT-LINED DUCTILE IRON

	CEMENT-LINED DOCTILE IRON			
QTY	CODE	KIT DESCRIPTION	KIT INCLUDES	
	F-HTAP-INSTL23	Hot tap installation kit for 3" to 6" cement-lined ductile iron (Complies with NSF/ANSI 61 & 372)	 1 ¼" full port bronze ball valve 1 ¼" brass close nipple 1 ¼" x 1" brass reducing bushing Ductile iron saddle with 1 ¼" outlet 	
	F-HTAP-INSTL24	Hot tap installation kit for 8" to 16" cement- lined ductile iron (Complies with NSF/ANSI 61 & 372)	 1 ¼" full port bronze ball valve 1 ¼" brass close nipple 1 ¼" x 1" brass reducing bushing Ductile iron saddle with 1 ¼" outlet 	
	F-HTAP-INSTL25	Stainless steel hot tap installation kit for 3" to 6" cement-lined ductile iron	 1 ¼" full port SS ball valve 1 ½" SS close nipple 1 ½" x 1" SS reducing bushing SS saddle with 1 ½" outlet 	
	F-HTAP-INSTL26	Stainless steel hot tap installation kit for 8" to 16" cement-lined ductile iron	 1 ¼" full port SS ball valve 1 ¼" SS close nipple 1 ¼" x 1" SS reducing bushing SS saddle with 1 ¼" outlet 	

STAINLESS STEEL

STAINLESS STEEL				
	F-HTAP-INSTL31	Hot tap installation kit for 1 1/4" and larger welded stainless steel pipe	 1 ¼" full port 316 SS ball valve 1 ¼" 316 SS close nipple 1 ¼" x 1" 316 SS reducing bushing 1 ¼" weld-on 316 SS branch outlet 	