



THERMAL DISPERSION FLOW / TEMPERATURE SWITCH IN-LINE UNIT

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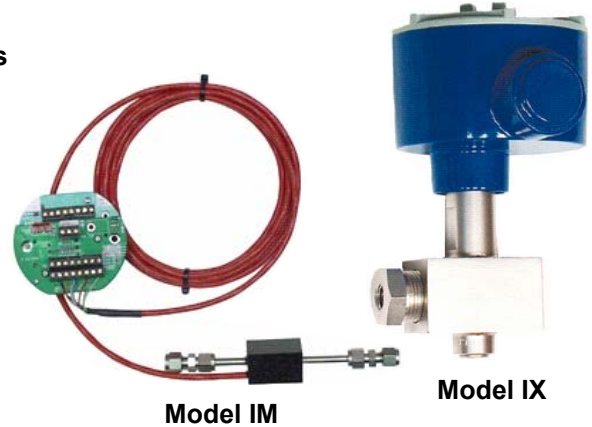
Model IX / IM

FEATURES

- Response Time From 1 Second
- One Switch for Either Flow or Temperature Applications
- No Moving Parts
- 316L Stainless Steel Wetted Parts
- Explosion Proof Enclosure (IX only)
- Pressure to 4000 psig / 275 bar Standard

OPTIONS:

- Pressure to 10,000 psig / 690 bar (IX only)
- Remote Mounting (IX only)
- Flange Mounting (IX only)



SPECIFICATIONS

Sensor

Materials of Construction	316L Stainless Steel Wetted Parts Standard
Response Time	No Flow to Flow: From 1 Second; Flow to No Flow: From 2 Seconds; Level: $\pm 1/8"$; Temperature from 1 Second
Operating Temperature	-50 to 350°F / -46 to 177°C Standard
Operating Pressure	Full Vacuum to 4000 psig / 276 bar Standard (IX) Full Vacuum to 2000 psig / 138 bar Standard (IM) Options to 10,000 psig / 690 bar optional (IX only)
Repeatability	Flow: 0.5% of maximum flow rating at Constant Conditions Standard Temperature: $\pm 1^\circ\text{C}$
Process Connection	3/4" FNPT Standard Options: 1/2" FNPT, Range Tubes, Flanges

Electronics

Housing (IX only)	Powder Coated Aluminum Standard Optional: Dual Compartment Aluminum; Dual Compartment 316L SS
Operating Temperature	-50 to 140°F / -46 to 60°C Ambient Option: Remote Mounting of Electronics Up to 2000 ft. / 609 meters
Power Input	90-132 VAC, 50/60 Hz, 5.5 watts max Options: 24 VDC, 24 VAC, 208-240 VAC
Relay Output	DPDT 8 amps @ 250 VAC
Conduit Entry	IX: 3/4" FNPT Standard
Approvals (IX only)	FM (Dual Compartment): XP / I / 1 / ABCD; DIP / II, III / 1 / EFG / T3A @ 60°C; Type 4X FM (Single Compartment): XP / I / 1 / CD; DIP / II, III / 1 / EFG / T3A @ 60°C; Type 4X CSA (Dual Compartment): Class I / ABCD; Class II / EFG; Class III; T3C @ 60°C; NEMA 4X CSA (Single Compartment): Class I / CD; Class II / EFG; Class III; T3C @ 60°C; NEMA 4X
Shipping Weight	5 lbs Standard

ORDERING INFORMATION:

IX 316L Stainless Steel Body; Explosion Proof Housing
IM 316L Stainless Steel wetted parts, composite sensor enclosure; no electronics housing
IX,IM / a / b / c / d / e / f / g / h :

- /a Housing (IX only)**
 /A1 Single Compartment Aluminum Housing **Standard**
 /A Dual Compartment Aluminum Housing
 /AW Dual Compartment Aluminum Housing with Glass Viewing Window
 /S Dual Compartment 316L Stainless Steel Housing
 /SW Dual Compartment 316L Stainless Steel Housing with Glass Viewing Window

Housing (IM only)

- /XX No housing **Standard**
 /A1 Single Compartment Aluminum Housing **Optional**

- /b Material Type**
 /S6 316L Stainless Steel **Standard**

- /c A) Process Connection – IM Series**
 2525 1/4" x 1/4" O.D. Tubing
A) Process Connection – IX Series Threaded
 /7575 3/4" FNPT **Standard**
 /5050 1/2" FNPT
 /1875 Range Tube #1, 1/4" FNPT x 3/4" FNPT with 1/8" range tube
 /2575 Range Tube #2, 1/4" FNPT x 3/4" FNPT with 1/4" range tube
 /XXXX Custom Inlet & Outlet 25 = 1/4", 50 = 1/2", 75 = 3/4"

B) Process Connection – IX Series Flanged

/AABC	AA	B	C
	10 1" Flange	1 150#	1 Raised Face, 316L SS
	15 1-1/2" Flange	2 300#	2 Raised Face, Carbon Steel
	20 2" Flange	3 600#	3 Flat Face, 316L SS
		4 900#	4 Flat Face, Carbon Steel
		5 1500#	6 Special

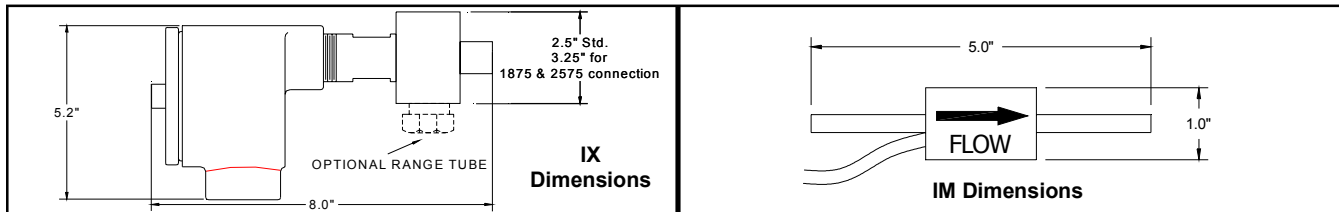
- /d Insertion Length**
 /25 2.5" **Standard** (all IX units except 1875 & 2575 connection)
 /325 3.25" (for IX units with 1875 & 2575 connection)
 /50 5.0" **Standard** (IM units only)

- /e Power Input**
 /1 90-132 VAC **Standard**
 /2 24 VDC or VAC (22.8 - 28.8 VDC; 20 VAC - 25 VAC)
 /3 200-240 VAC

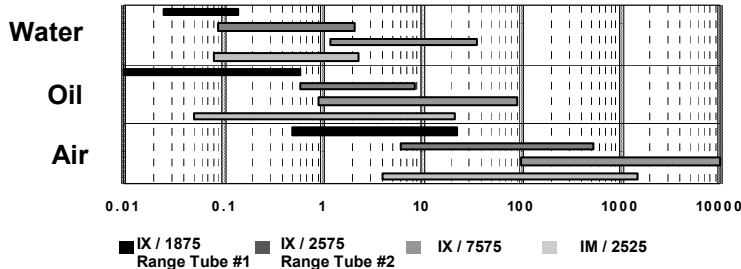
- /f Process Temperature**
 /H0 -50 to 350°F / -46 to 177°C **Standard**

- /g Approvals (IX only)**
 /FMX Factory Mutual Research Corp. (FMRC) Explosion Proof **Standard**
 /CSX CSA Canadian Standard Association Explosion Proof
 /CEX Cenelec Eex d IIC (**Pending**)
 /X Not FMRC, CSA or Cenelec Approved

- /h Options (leave blank if no options required)**
 /DS Dual Switch Point Electronics with Millivolt Output
 /RJxxxx Remote Electronics with PVC Cable (200°F / 93.3°C) Specify cable length "xxxx"
 /RFxxxx Remote Electronics with Teflon Cable (350°F / 177°C) Specify cable length "xxxx"
 /HP High Pressure Option 10,000 psig / 689 bar (IX Only)
 /HS Hermetically Sealed Probe (probe hermetically sealed at connection to enclosure)



INSTRUMENT RANGEABILITY
(cc / sec)



CONVERSION CHART
TO cc/sec

From:	Multiply by:
Gal / Min.	63.1
Gal / Hr.	1.05
Gal / Day	0.0438
L / Min.	16.7
L / Hr.	.278
L / Day	0.0116
Ft ³ / Min.	472.0
M ³ / Hr.	278.0

K-TEK
 18321 Swamp Road
 Prairieville, Louisiana 70769
 USA
 Telephone: (1) 225-673-6100
 Fax: (1) 225-673-2525



Email: sales@ktekcorp.com
 Website: www.ktekcorp.com