

- INPUT THERMOCOUPLE AND RTD
- 4 DIGIT LCD DISPLAY IN DEGREE C OR F
- RUGGED NEMA 4X ENCLOSURE
- CHOICE OF ALUMINUM OR SS316 ENCLOSURE
- DESIGNED TO REPLACE BIMETALLIC SENSORS
- EXPLOSION PROOF CERTIFIED
- 3 YEAR WARRANTY



Introduction

IME Model 8080KN Battery Operated Digital Temperature Indicator accepts an input from a standard Type J or K Thermocouple or RTD and provides local indication of temperature in degree F or C. Designed specifically to replace Bimetallic Sensors, 8080KN becomes a universal instrument since only one instrument will indicate the entire useful range of the thermocouple. This eliminates having several bimetallic sensors where the dial range has to be predetermined. Operating costs are also drastically reduced since the temperature sensor can be easily replaced in case of failure, unlike a bimetallic sensor where the entire instrument has to be discarded. Furthermore thermocouples are a lot more reliable, accurate and stable when compared to the archaic bimetallic sensor.

Description

IME Model 8080KN is designed for use in process industries where vibration, inclement weather and corrosive atmospheres prevail. The electronics are enclosed in a copper-free epoxy coated Aluminum housing and for more aggressive environments a SS316 housing is optionally available. The housing meets the requirements of NEMA 4X & IP66, and are also certified Explosion Proof by FM and CSA.

Mounting

A wide choice of stainless steel mounting brackets are available for mounting the Model 8080KN on either a 2" pipe or wall.

Certification System

	<p>CLASS I, DIV I GROUPS B, C AND D CLASS II/III, DIV I GROUPS E, F AND G NEMA 4X</p>
	<p>CLASS I, DIV I GROUPS B, C AND D CLASS II, DIV I GROUPS E, F AND G CLASS III, NEMA 4X</p>

Functional Specifications

Sensor	Thermocouple Type J / K or RTD Pt100
Indication Accuracy	Better than 0.5 Degree C
Display Height	12.5mm (1/2") high
Display Units	°C or °F, switch selectable
Battery Life	Approx. 12 Months
Calibration	Single point calibration for enhanced accuracy
Operating Temperature	-20 to 60°C for RTD Input 0 to 60°C for Thermocouple Inputs
Weight	0.9Kg (2LBS) for Aluminum Unit and 1.4Kg (3LBS) for SS316 unit (Not including sensor)
Material of Construction for Enclosure	Epoxy Coated Copper-Free Aluminum or SS316 as specified
O Rings	Hydrogenated Nitrile
Optional Accessories	Mounting Brackets (IME Model 175NR, 175MM)

Ordering Information

Model	Description	
8080KN	Field Mounted Battery Powered Temperature Indicator with 4 Digital LCD Display	
	Code	Options, Housing
	A	Die-Cast Aluminum, Epoxy Coated
	T	SS316, Electro Polished
	Code	Instrument Connection (T1)
	13	3/4" NPT
	14	M20 x 1.5P
	16	1/2" BSP
	17	1/2" NPT
	Code	Conduit Connection (T2)
	13	None
	14	None
	16	None
	17	None
	Code	Certification
	NN	None
	E1	FM and CSA Explosion Proof Certified, NEMA 4X
	Code	Accessories
	NR	IME Model 175NR Mounting Bracket
	MM	IME Model 175MM Mounting Bracket
	Code	2 Inch "U" Bolt with Nuts and Washers
	00	None
	02	IME Model 17508, 2 Sets (For IME Model 175NR only)

8080KN	A	17	E1	NR	02	← Typical Model Number
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Note: 1) M20 X 1.5P Threads are not approved by CSA
 2) 1/2" BPS Threads are not approved by FM and CSA

Enclosure Dimensions

