HAZARDOUS LOCATIONS

MINCO EXPLOSION PROOF / INTRINSICALLY SAFE HUMIDITY AND TEMPERATURE TRANSMITTER



DESCRIPTION

The Minco Model HT880 explosion proof / intrinsically safe humidity transmitter is designed for rugged industrial use. Approved by FM for hazardous location, this system provides safe, reliable, and accurate humidity and optional temperature measurement. The capacitive film sensor is ideal for low and high humidity measurement with 4-20mA outputs. The HT880 comes with a stainless steel sintered filter and an optional NIST traceable certificate. The HT885 has a digital display.







HT880 with AC103168 bracket

FEATURES

- Replaces Hy-Cal HCT880 Series
- Available with digital display
- Intrinsically safe with MTL7706 barrier





HT885

CAUTION: Intrinsically safe devices require the use of an intrinsic safety barrier when applied in hazardous locations. Provide wiring and grounding in accordance with manufacturer's instructions. When the Model HT-880 is combined with the MTL7706 intrinsic safety barrier, total cable capacitance must be limited to 0.22 μF, and inductance must be limited to 4.0 mH (equivalent to 2700'/823m maximum Belden® #8760 18/2 shielded cable 0.18 μH/FT, 44 pF/FT).

CAUTION: Conduit seals MUST be installed within code-required distance from the enclosure to maintain explosion proof rating. For Group B and C atmospheres, conduit seals must be within 2" (5 cm) of the enclosure regardless of less stringent code requirements. NOTE: When using the temperature option, both humidity and temperature loops must be connected to operate.

SPECIFICATIONS

Supply Voltage 16.5 to 28.0 VDC ±2.5% RH from 10 to 80% RH **Accuracy** Includes hysteresis, linearity, repeatability, and all temperature and voltage effects

Signal Output 4-20 mA **Maximum Output Impedance**

FI 725Ω @ 24VDC FX 375Ω @ 24VDC

Entity Parameters Vmax 28V, Imax 100mA, Ci 0.037µ,

Li 0mH

Area FΙ

> Class I, Div. 1, 2, Groups A, B, C, D; Class II, Div. 1, 2, Groups E, F, G; Class III, Div. 1, 2; Class I, Zone 0,

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FΧ Class I, Div. 1, 2, Groups B, C, D; Class II, Div. 1, 2, Groups E, F, G;

Class III, Div. 1,2

Sensor Type RH: Thin film capacitive element Optional Temperature: 1000 platinum RTD, 385 curve

Response Time 50 seconds in slow moving air

Operating Temperature

HT880 -40° to 176°F (-40° to 80°C) HT885 -4° to 176°F (-20° to 80°C)

Operating Humidity 0 to 100% RH **Conduit Connection** 1/2" FNPT

1/2" MNPT and bracket sold Mounting

separately

Non-interacting zero/span **Adjustments** Display (HT885) 3.5 digit LCD display, % RH and

optional °F or °C

NEMA 4X, Metal with screw-on cover **Enclosure Rating Sensor Filter** 60 micron stainless steel sintered

filter

Sensor Range 0% to 100% RH Wiring Terminals, 22-14 AWG

Weight HT880

2.8 lb (1.3 Kg) HT885 4.5 lb (2.02 Kg)

Approvals FΜ Warranty 3 years

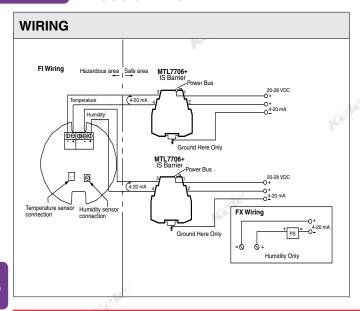
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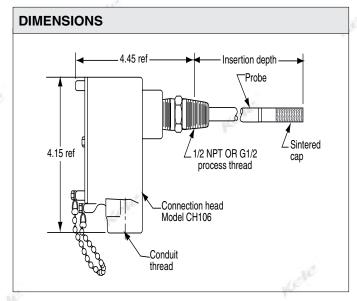


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HT880 SERIES





WARNING: All circuits MUST be de-energized before opening the cover of this device for any purpose. If work must be performed with an energized circuit, the atmosphere inside and outside the enclosure must be proven safe with a listed intrinsically safe combustible gas detector.

ORDERING INFORMATION

MODEL	DESCRIPTION					
HT880	Industrial-grade, ±2.5% RH, 4-20 mA transmitter					
HT885D	Indus	ndustrial-grade, ±2.5% RH, 4-20 mA transmitter with LCD display				
	CALI	IBRATION				
	N25	NIST three-point ±2.5% calibration certificate				
	S25	Standard ±2.5% calibration				
TEMPERATURE OPTIONS (other ranges available)						
NT		No temperature transmitter				
EN		-20° to 140°F (-28° to 60°C)				
S		0° to 100°F (-18° to 38°C)				
		Special calibration ranges available (must call)				
			PROBE LENGTH			
60			60	6" inch probe length		
12			12	12" inch probe length		
A				AGI	ENCY APPROVAL	
				FX	FM approved, explosion proof (NT option only)*	
for use as intrinsically safe				FI	FM approved, intrinsically safe	

RELATED PRODUCTS

AC102765 HT885 pipe/wall bracket

AC103168 Separate pipe/wall mounting hardware kit

AC103253 Duct mount kit for HT880

kele.com

DCP-1.5-W Power supply, 24 VAC IN to 24 VDC OUT Power supply, 120 VAC IN to 24 VAC/24 VDC OUT

EYM-50 1/2" size, 1.06" turning radius, 1 oz Kwiko cement required, Malleable Iron construction

GFF-50 1/2" galvanized mounting flange

MTL7706+ Intrinsic safety barrier, 4-20 mA two-wire transmitters

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