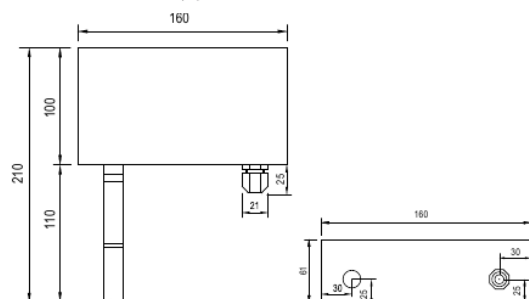


EX-PROTECTED HUMIDITY AND TEMPERATURE TRANSMITTER

TECHNICAL INFORMATION.

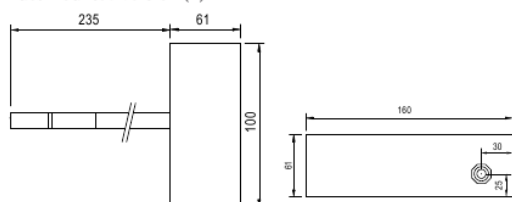
HF520-EX-W

Wall mounted version (W)

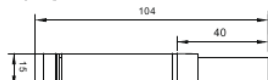


HF520-EX-D

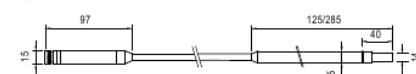
Duct mounted version (D)



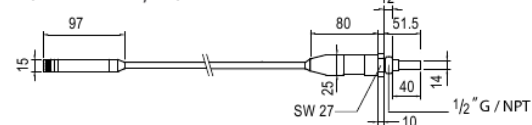
HC2-SM-EX



HC2-IMxxx-EX



HC2-IExxx-EX / HC2-LDPxxx-EX



Identification EX North America

Class I, Div 1/2, Groups ABCD T5...T4,
Class II, Div 1/2, Groups EFG T80 °C...T110 °C
Ex e mb [ia Ga] IIC T5...T4 Ga/Gb
Ex tb [ia Da] IIIC T80 °C...T110 °C Da/Db
Class I, Zone 0/1, AEx e mb [ia Ga] IIC T5...T4 Ga/Gb
Class II, Zone 20/21, AEx tb [ia Da] IIIC T80 °C...T110 °C Da/Db

HF520-EX

General	
Parameters	Humidity and temperature
Calculated parameters	All psychrometric parameters available
Housing material / Protection	Aluminium (DIN EN 1706 EN AC-ALSi 12 (Fe)) / IP66
Weight	Wall mounted version: 1030 g Duct mounted version: 1140 g
Start-up time	Standard cold <60 s / warm <30 s
Measurement interval	20...240 s
Display	Optional, LCD without backlight
Electrical connections	Connections: Ex-e terminals (0.2...2.5 mm ²) Cable gland: 16 x 1.5 (Ø cable 4.5...7 mm)
Power supply	10...28 VDC
Current Consumption	2x24 mA start up / 2x20 mA operation
Application temperature	-40...60 °C without display
Housing / electronics	-10...60 °C with display
Service interface	UART internal service interface (only to be used outside the explosive zone)
CE / EMC compatibility	EMC Directive 2014/30/EU
ATEX directives	2014/34/EU (ATEX) CSA22.2, UL 508
Identification EX	Ex II 2(1) G Ex eb mb [ia Ga] IIC T5 Gb Ex II 2(1) D Ex tb [ia Da] IIIC T80 °C Db
Analogue output	
Number	2
Current	4...20 mA, two-wire
Galvanic isolation	Yes
Maximum load	500 Ohms
Accuracy at 23 °C	<20 uA

HC2-SM-EX / HC2-IM-EX / HC2-IE-EX / HC2-LDP-EX

General	
Parameters	Humidity and temperature
Housing material / Protection	Stainless steel / IP66
Cable lengths	2/5/10 metres
Identification EX	Ex II 1/2 G Ex ia IIC T5...T4 Ga/Gb Ex II 1/2 D Ex ia IIIC T80 °C ...T110 °C Da/Db
Humidity measurement	
Sensor	HC2-SM/IM/IE-EX: ROTRONIC HYGROMER® IN-1 HC2-LDP-EX: ROTRONIC HYGROMER® LDP-1
Adjustment	Not via device menu (only outside the explosive zone with HW4 + AC3001)
Measurement range	0...100 %RH
Accuracy at 23 °C	0.8 %RH
Temperature measurement	
Sensor	HC2-SM/IM/IE-EX: Pt100 Class A HC2-LDP-EX: Pt1000 1/3 Class B
Measurement range	-40...60 °C or -40...85 °C
Accuracy at 23 °C	0.1 K
Accessories	
Filters	Steel sinter filter, SP-FN15
Cable gland	AC1301-MEX for duct mounting and cable probes (IM)

Subject to technical change without notice. Errors and omissions excepted.