TU

Humidity and temperature probe

Suitable for use in the presence of powders
IP66 enclosure protection
2 outputs 4 ÷ 20mA
Atex certification

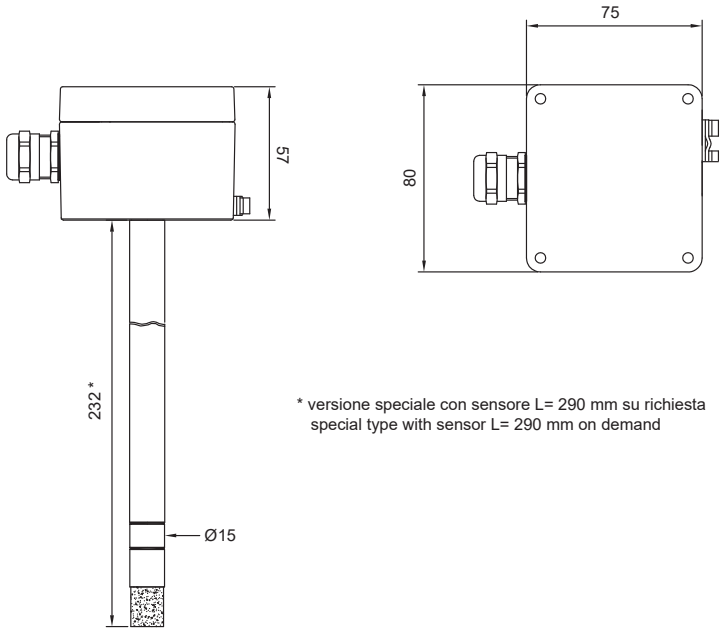
TU sensors are used to measure relative humidity and ambient temperature even in areas at risk of explosion and / or in places with flammable dusts. The probe comprises a sensor part with a sintered filter mounted on a robust die-cast aluminum housing (transmitter part), both made of stainless steel.
The specific sintered filter and ATEX certification make the TU transmitter particularly suitable for measuring humidity and ambient temperature inside silos for the storage of cereals.
The transmission of the measured values takes place via 2 galvanically separated 4 ÷ 20mA analog signals.

Technical Feature

Housing material
Aluminum
Sensor rod material
AISI
Sintered filter material
AISI
Mechanical installation
M25x1.5
Degree of protection
IP66
Working temperature
-40 ° ÷ + 80 ° C

Electrical connection
Terminal blocks
Power supply
13 ÷ 24Vdc
Absorbed power
Max. 780mW
Analog output
N.1 4 ÷ 20mA - humidity transmission
N.1 4 ÷ 20mA - temperature transmission

Humidity measurement range
0 ÷ 100% rh
Temperature measurement range
-20 ÷ 80 ° C
Accuracy of humidity measurement
± 2% rh
Accuracy of temperature measurement
± 0.2 ° C
ATEX
II 1 / 2G Ex ia IIC T4
II 2D Ex tb IIIC T95 ° C
-40 ° C ≤ Ta ≤ + 80 ° C



* versione speciale con sensore L= 290 mm su richiesta
special type with sensor L= 290 mm on demand

TU Humidity and temperature probe

Relative humidity range 0÷100%rh - Accuracy ±2%rh
Temperature range -20° ÷ +80°C - Accuracy ±0,2°C
Nr. 2 4÷20mA output
Die-cast aluminium housing IP66 - Stainless Steel sensor
Sintered filter in Stainless steel for hunidity sensor
Power supply 13÷24Vdc
Working temperature -40° ÷ +80°C

	Probe length	
	1	Standard, L=232mm
	2	Extended, L=290mm
	9	Special
	Process connection	
	B	M25x1,5 mounting kit
	Z	Special
	Certification	
	1	Atex II 1/2G Ex ia IIC T4 / II 2D Ex tb IIIC T95°C / -40°C ÷ Ta ÷ +80°C