HumiTrans 620

The humidity and temperature transmitter HumiTrans 620 is the most powerful transmitter of Leyro.

This equipment allows to measure multiple parameters of any hygroscopic measurement as well as to work in a temperature range of up to 180ºC.

The LE1800 high quality capacitive sensor ensures excellent stability in any type of application.

The HumiTrans 620 transmitter is presented with a single configuration but with great possibilities and applications thanks to the great potential of its software.

The equipment is presented in a wall version with an elongation cable of 2 meters for the most demanding applications. It is designed to work in a temperature range of -80 ... 200ºC.
The unit has 2 analog outputs of humidity and temperature, configurable in voltage and current. It also has RS232 communications. The equipment is optionally supplied with a local indicator.

The HumiTrans 620 has 2 buttons on the base plate to perform the loop calibration at two humidity and temperature points, as recommended by the FDA (American Food and Drug Administration).

APPLICATIONS

Greenhouses & Farmers
Warehouses
Swimming pool & Sport Centers
House Automation
Meteorologic Stations
Museums
Libraries

HIGHLIGHTS

Measure 0…100% hr
Accuraty 2% saturable
Traceable calibration
Working range -40ºC…80ºC
Excellent long-term stability

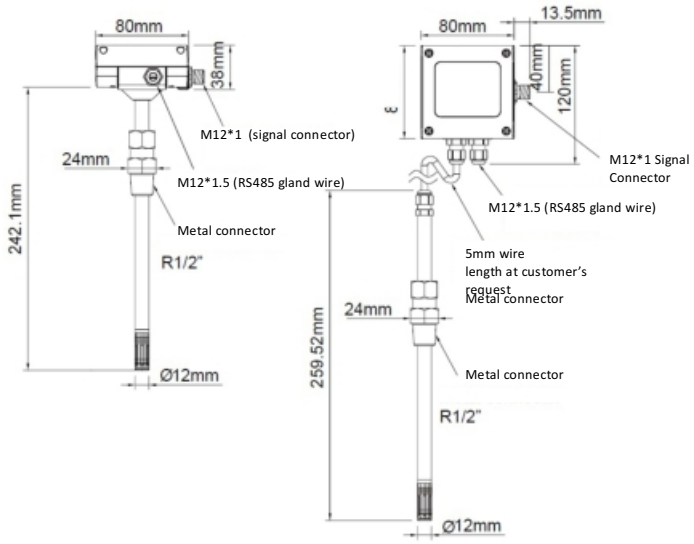
Technical Data

RH:		
Sensor	LE1800	
Analog output 0…100% rh	0-1 V	-1 mA < IL < 1 mA
	0-10 V	-1 mA < IL < 1 mA
	-20 mA (two wires)	RL < 500 Omh
	4-20 mA (two wires)	RL< 500 Ohm
Recommended work range	0…100% rh	
Accuracy at 20ºC	±1.5% rh	
Temperature deviation	Typical. ±0.005% rh/°C	
Response time	< 15 seg.	
Traceable by international standards	ENAC, NIST, PTB	
Temperature		
Sensor	Pt1000 (Class A, DIN EN 60751)	
Analog output	0-1 V	-1 mA < IL < 1 mA
	0-10 V	-1 mA < IL < 1 mA
	-20 mA (two wires)	RL < 500 Omh
	4-20 mA (two wires)	RL< 500 Ohm
Accuracy at 20ºC	±0.15°C	
Temperature range	-40…180ºC	
Configurable measure parameters		
Humidity	Rh 0… 100 %	
Temperature	T -40… 180 ºC	
Temperature of dew point	Td -40… 100 ºC	
Temperature of freezing point	Th -40… 0 ºC	
Water vapor density	Ta 0… 100ºC	
Water vapor pressure	e 0… 1100 mbar	
Mixing ratio	r 0… 999 g/Kg	
Water vapor density	dv 0… 700 g/m3	
Enthalpy	h 0... 2800 kJ/Kg	

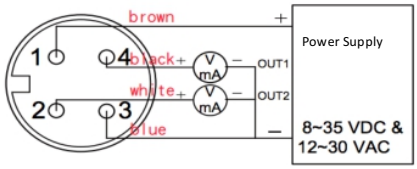
General Data

Power Supply	8 – 35 Vcc ó 12 – 30Vca
Consumption	2 x current output, 24Vcc/ca: Typical < 80mA 2 x voltage output: Typical < 40mA
Electrical Connections	Terminal with clamping screws, 1.5 mm^2 max.
Housing/Protection degree	PC fire-proof class / IP65
Cable gland	M16 x 1.5
Sensor Protection	Membrane filter, sintered steel, teflon
Working temperature sensor	-40…80ºC
Electromagnetic Compatibility	EN1326-1, ICES-003 Clase B, EN61326-2-3
Software requirements	Windows 2000 or higher / serial port
Storage and Working temperature	-40…60ºC -25…50ºC (with indicator)

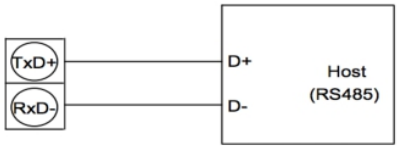
Dimension



Electrical Connections



Modbus Communication



Orders

Model	Output	Parametrizable Output	Sensor Protection
Humitrans 620 HT Conduit and remote	0 – 5V (T1) 0 - 10V (T2) 0 – 20mA (C1) 4 - 20mA (C2)	Relative Humidity (RH) Temperature of dew point (DPT) Temperature of freezing point (FPT) Water vapor density (Ta) Water vapor pressure (e) Water vapor density (dv) Mixing ratio (r) Enthalpy (h)	Membrane filter (M) Sintered steel filter (S) Teflon filter (T)

Output signal scaling	Local Indication	Options
Humedity 0…100%h Temperature -40…180ºC Others (Rxx)	Yes (IL) No (xx)	Calibration set PC housing for local indication

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