Humidity & Temperature Transmitter – E2228

pacific data systems Australia



4-20 mA 0-10 V

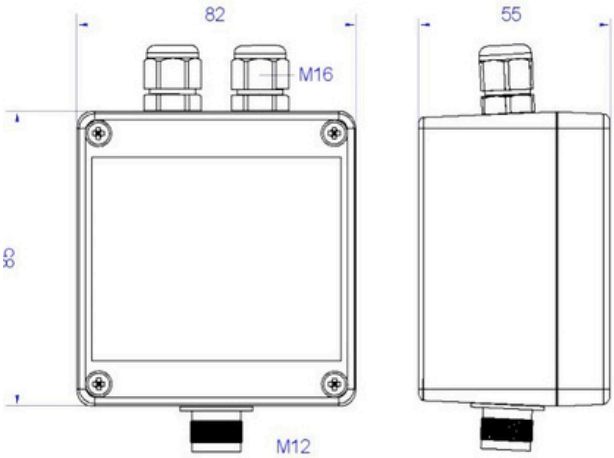
RS485 Modbus

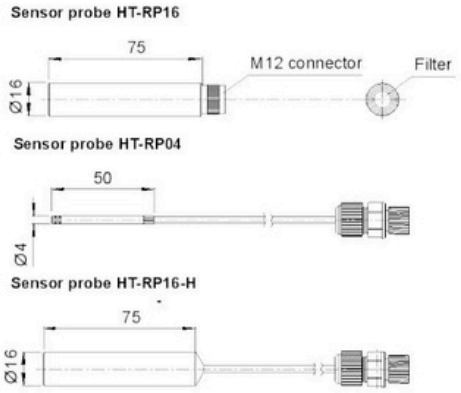
Features

- Excellent repeatability and stability
- Fully calibrated and temperature compensated
- Heavy duty IP65 protected enclosure
- 0-10 V or 4-20 mA switchable analog outputs
- Two relays for thermostat / hygrostat functionality
- RS485 Modbus RTU digital interface
- Range of remote probes

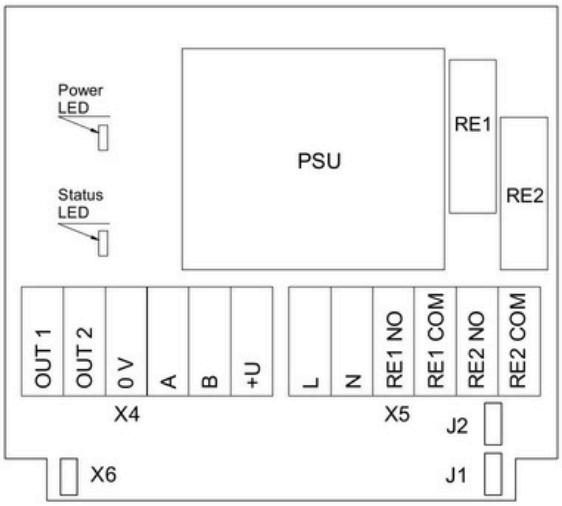
Specifications

Sensor	DigitalcombinedRH andTsensor
Measurement range	0...100%RH, -40...+85°Cor-40...+125°C(with heavy duty probe HT-RP16H), non-condensing
Calculated parameters	Dew point,absolutehumidity
Resolution	0,01%RH / 0,01°C
Accuracy	±2,5%RH (optionally±1,8%RH)
	±0,3°C
Response time	~15 seconds
Self-diagnostics	Full functionality check at start-up
Warm-up time	≤ 1 s
Powersupply	12...36 VDC (default),
	24 VAC or 230 VAC as options
Power consumption	< 1,5 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable, freely configurable scales
Output relays	2× SPSTrelays(closingcontact),
	250 VAC / 30 VDC, 5 A max
Cable connections	Screwless terminal blocks
Probe connector	Round industrialM12,IP68
Enclosure	Grey ABS, wallmount,
	protection classIP65
Dimensions	H85 × W82 × D55mm
Operating environment	Industrial indoor andoutdoorplaces
Operating conditions	-40...+85 °C, 0...100%RH(non-condensing)
Attached probe	M12 connector-based,Ø16×L75 mm
HT-RP16	
Micro-probe HT-RP04	st.steel Ø4×L50 mmwithventslots, cable 2,5 m or 5 m,-40...+85°C
Remote probe HT-RP16	Black painted aluminiumØ16×L75 mm, M12 plug, PVC cable2,5or5m, -40...+85 °C
Heavy duty probe HT-RP16H	Black painted aluminiumØ16×L75 mm, for harsh environment PTFEcable 2,5 or 5 m, -40...+125 °C





Connection diagram



Jumpers	
J1	OUT1 type (open: 4-20 mA; closed 0-10 V)
J2	OUT2 type (open: 4-20 mA; closed 0-10 V)
X6	Reset Modbus network parameters to default
X4 terminals	
OUT1	4-20 mA / 0-10 V output
OUT2	4-20 mA / 0-10 V output
0V	0 V / 24 VAC Neutral (optional)
A	RS485 A / Data +
B	RS485 B / Data -
+U	+24 VDC / 24 VAC Phase (optional)
X5 terminals (optional)	
L	90…265 VAC Phase
N	90…265 VAC Neutral
RE1 NO	Relay 1, normally open terminal
RE1 COM	Relay 1, common terminal
RE2 NO	Relay 2, normally open terminal
RE2 COM	Relay 2, common terminal