



E-RHT-20 SERIES

HUMIDITY AND TEMPERATURE TRANSMITTER

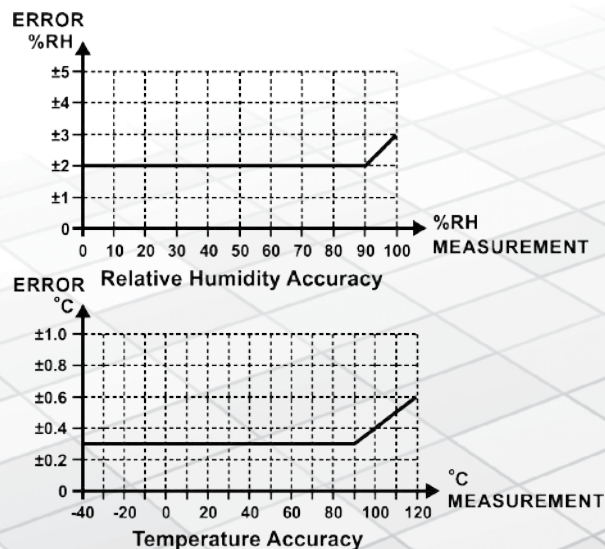


DESCRIPTION

E-RHT-20 is a microprocessor based transmitter that uses a single chip relative humidity and temperature sensor module. The single chip sensor provides 14/12 bit (humidity / temperature) serial digital output for each reading. The sensor includes two calibrated micro sensors for relative humidity and temperature.

The transmitter is mounted in a waterproof plastic case and it is available with or without display unit. The transmitters can be employed in all common applications by choosing the appropriate mounting configurations.

ACCURACY GRAPHICS



TECHNICAL SPECIFICATIONS

Humidity

Accuracy	See accuracy graphics
Range	0-100 % RH
Response Time	4 sec.
Reproducibility	± 0.1 % RH
Resolution	0.1 % RH

Temperature

Accuracy	See accuracy graphics
Range	-40 ... 120 °C
Response Time	30 sec.
Reproducibility	± 0.1 °C
Resolution	0.1 °C

Operating Temperature

Transmitter	-10 ... 55 °C
Probe	-40 ... 120 °C

* Humidity and temperature response time depends on the sensor's application-integrated management and process conditions (air flow, etc.)

■ ORDERING GUIDE

E-RHT-20 Series Transmitters

E-RHT-10 U - V - W - X - Y - Z

Display

None (There are no output options with relays.)	0
Yes	1

Output

None	0
2x0-20 mA	1
2x4-20 mA	2
2x0-10VDC	3
2xNA-0 relay/2x0-20 mA	4
2xNA-0 relay/2x4-20 mA	5
2xNA-0 relay/2x0-10 VDC	6

Communication

None	0
RS485 Modbus	1

Probe Type

Wall mount	0
Duck mount length= 10 cm.	1
Duck mount length= 20 cm.	2
Duck mount length= 30 cm.	3
Portable with 2 m. cable	4
Portable with 5 m. cable	5

Probe Filter

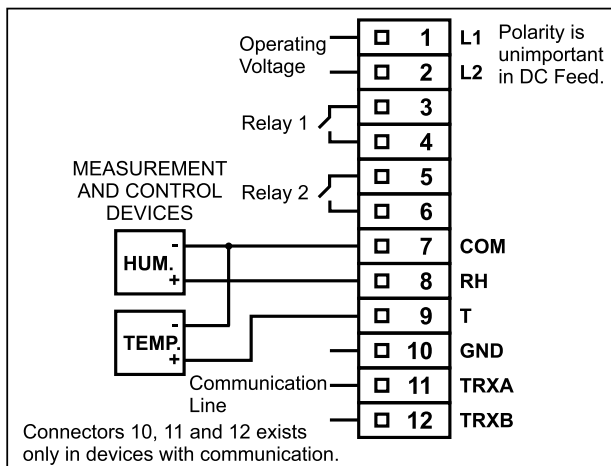
Plastic grid	0
Sintered bronze	1
Membrane	2
Metal grid	3
Sintered stainless steel	4
PTFE	5
DF Filter (diameter is 18mm)	6

Power Supply

20-60V AC or 20-85V DC	1
85-265V AC or 85-375V DC	2

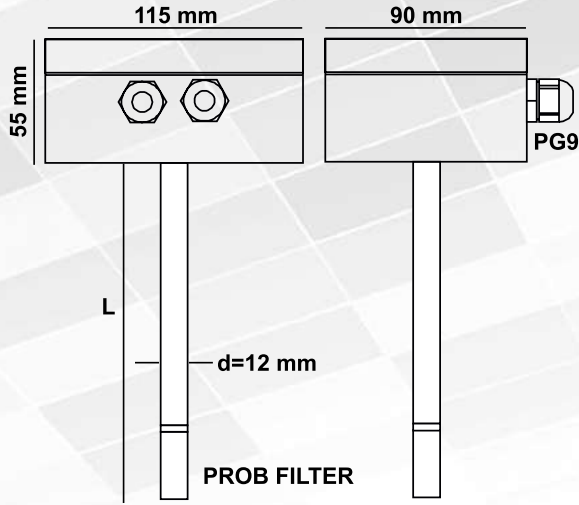
Note: For process connections (e.g. thread, flange, etc.) and cables longer than 5m, please contact Elimko.

■ CONNECTION DIAGRAM

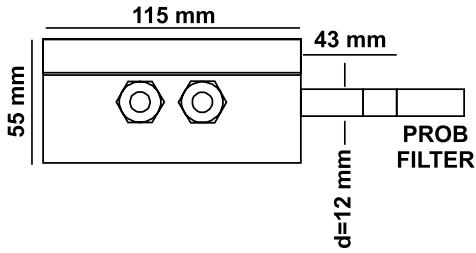


DIMENSIONS

Duck Mount Type



Wall Mount Type



Wired, Portable Type

