



INDOOR HUMIDITY- AND TEMPERATURE TRANSMITTER BTHD220

- Low cost
- Temperature compensation system
- RS485 MODBUS RTU
- Output 4-20mA, 1-5V DC
- Compact design

DESCRIPTION

BTHD220 is using thin-film sensor with capacitance changing proportionally to medium relative humidity, BTHD220 measures RH and temperature of air and non-aggressive gases and converts it into standard 4...20mA or 1-5VDC signal for temperature and humidity and as option RS485 MODBUS RTU communication. A built-in temperature drift compensation system guarantees good stability of measurement of both medium relative humidity and temperature. The RH transmitter is factory calibrated and does not need custom adjustment. The device is available in 3 variants

All this, in addition to the small size, and the low price, make BTHD220 a convenient solution for many RH measurement applications.

TECHNICAL SPECIFICATIONS

Casing material : ABS plastic
Pt-100 : -20 - +60°C
Humidity range : 0-100% (Capacitive sensor)

INSTALLATION

Supply : 24 VDC $\pm 10\%$ max 2,4W
Ambient temp : -20 to 60°C
Mounting : Wall mount to IP20
Dimension : Refer to drawing

OUTPUT

Humidity : 4-20mA or 1-5VDC
Temperature : 4-20mA or 1-5VDC
Load : 0 - 600 Ω current output
Communication : RS485 MODBUS RTU

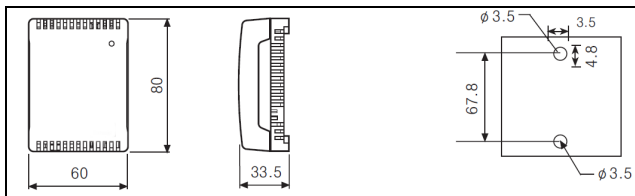


PERFORMANCE

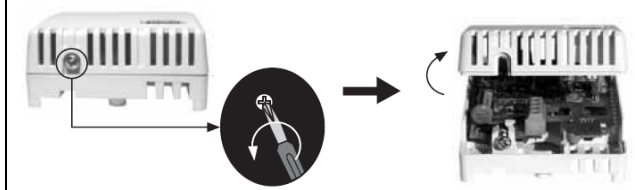
Accuracy : $\pm 0.5\%$ (Temp) $\pm 2\%$ (RH)
Resolution : 0,02mA/0,1°C, 0,02mA/0,1% (RH)
Isolation : 500VAC for 1 minute
Response time : 0,5 sec
EMC : EN 50081-1, EN 50082-2
 73/23/EEC & 89/336/EEC



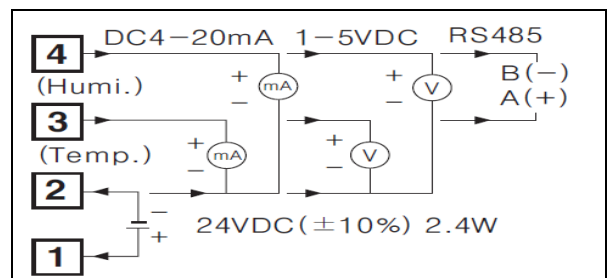
MECHANICAL SPECIFICATION



Unscrew the bolt on the bottom of product and separate the case.



CONNECTION



ORDER INFORMATION

BTHD-220
MOUNTING : R Indoor
OUTPUT : C 4-20mA
 V 1-5VDC
 T RS485



BASI Instrument AB
 P.O. Box 53

Tel: +46 40-880 09
 SE-275 06 VOLLSJÖ...SWEDEN

Fax: +46 40-92 98 77
 E-mail: info@basi.se