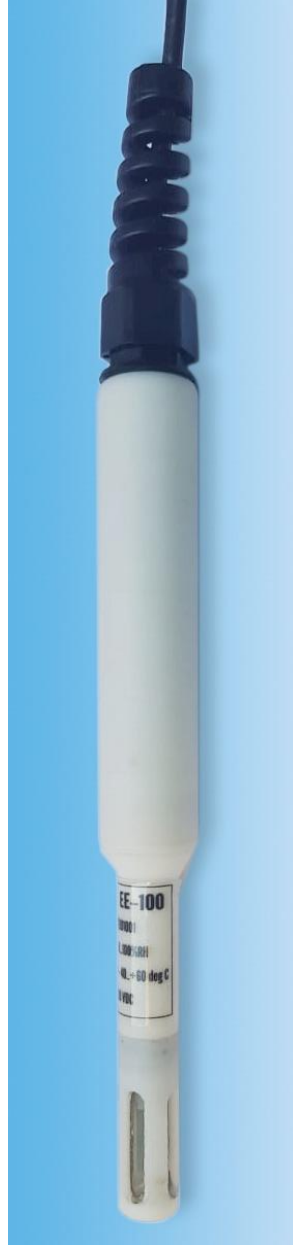


EE-100
AMBIENT TEMPERATURE , RELATIVE HUMIDITY
TRANSMITTER PROBE



MAIN FEATURES

- *Single Transmitter to measure Ambient Temperature and Relative Humidity.*
- *Ambient Temperature Range is -40 - 60 deg. C (typical).*
- *RH range 0-100% (typical).*
- *Temperature Output voltage range 0.00VDC @ -40 deg.C to 1.00VDC @ 60 deg. C .*
- *RH Output voltage range 0.00VDC @ 0 RH% to 1.00VDC @ 100 RH%.*
- *Low power consumption*
- *Excellent long term stability*

DESCRIPTION

EE-100 is an advanced transmitter for measuring Relative Humidity and Ambient Temperature with a high precision and high accuracy .

EE-100 is combined Humidity and temperature probe for use in meteorology and similar demanding applications for example Weather Stations , tunnels , airports etc.

Except for the sensor element , EE-100 is protected against unintentional penetration of Humidity.

Its linear voltage output has been matched to the requirements of data collection and transmission systems.

EE-100 is factory adjusted before delivering , for which reason checking upon reception of the instrument is not necessary as a rule. The probe is ready for a reliable measurements 5 sec after being switched on.

The **EE-100** provides an output signals for both Temperature and Humidity. For temperature the output voltage range is 0.00VDC @ -40 deg.C to 1.00VDC @ 60 deg. C . For Humidity the output voltage range is 0.00VDC @ 0 RH% to 1.0VDC @ 100 RH%.

TECHNICAL DATA

Ranges

Temperature -40-60 deg. C.
Relative Humidity 0-100 %

Output signal

Temperature 0.00 VDC - 1.0 VDC
Relative Humidity 0.00 VDC - 1.0 VDC

Accuracy at 23 oC

Temperature +- 0.5 deg. C.
Relative Humidity +- 3 RH%

Repeatability

Temperature +- 0.1 deg. C.
Relative Humidity +- 0.5 RH%

Response time

τ (63%) (5 sec typical)

Long Term Stability for Humidity

Relative Humidity <0.5 RH% / Year

Input Power

From 7VDC up to 30VDC (12VDC typical power).

Characteristic

Linear

Isolation voltage

500 Vac

Storage temp.

-40-70°C

ELECTRICAL CONNECTIONS

Cable Connection

RED - Input Power 7 ... 30VDC . (12 VDC typical)

BLACK - Ground

WHITE - Ambient Temperature output voltage , RANGE (0.00VDC - 1.0VDC)

GREEN - Relative Humidity , RANGE (0.00VDC - 1.0VDC)

HOW TO ORDER

EE-100 – AA – BB – CC – DD-EE

AA – TEMPERATURE RANGE , PLEASE WRITE DIRECTLY
-40 – 60 OC (TYPICAL)

BB – RH RANGE , PLEASE WRITE DIRECTLY
0% – 100% (TYPICAL)

CC – OUTPUT VOLTAGE
TEMPERATURE : 0.0 – +1.0 VDC (TYPICAL)
R. HUMIDITY % : -0.0 – +1.0 VDC (TYPICAL)
OTHERS (PLEASE SPECIFY)

DD – SUPPLY VOLTAGE
12 VDC (TYPICAL)

EE – OTHER REQUIREMENTS
PLEASE SPECIFY