

## HTR-92 RH & Temperature Indicator Transmitter



### OVERVIEW

The ASHE HTR-92 is a micro-controller based instrument for the measurement and retransmission of Relative Humidity and Temperature, offered in a compact and portable execution.

The instrument has three control Keys on the front panel, through which the Operator can set the parameters and configure the instrument as desired. The HTR-92 uses a precision RH+T Sensor and is factory calibrated for accurate display of ambient temperature and relative humidity. The instrument provides two analog retransmission signals of 4-20 mA DC proportional to the measured Relative Humidity and Temperature for process control or logging purposes. It also offers a RS485 communication signal (on Modbus protocol) of these parameters, for remote monitoring.

The instrument operates on 24 VDC and is offered in a rugged polycarbonate enclosure in wall-mount execution. The bright OLED display provides clear indications of the relative Humidity and Temperature values.

The HTR-92 is therefore an ideal instrument for the local measurement of Relative Humidity and Temperature and for retransmission of the signals to remote Indicators and Control Systems. Other features include its inherent accuracy and immunity to shocks, dust and ambient temperature variations. It is available in a compact execution and can be easily wall-mounted at a strategic location. Further, the instrument is manufactured using selected high-grade components which guarantee its functionality and long operational life.

All ASHE range of instruments carry a five year warranty for satisfactory design and workmanship.

### SPECIFICATIONS

<b>Model</b>	ASHE HTR-92
<b>Type</b>	Micro-controller based, Relative Humidity and Temperature Monitor with Signal Retransmission and Communication.
<b>Sensor</b>	Precision Chip-Cap Sensor for accurate measurement.
<b>Display</b>	Dual-line OLED display.
<b>Scale Range</b>	-50 to +150.0 degrees Centigrade 0 to 100.0% Relative Humidity (non-condensing).
<b>Indications</b>	Bright OLED Display with 8-character x 2-line indication of process parameters and system configuration.
<b>Accuracy</b>	± 2% RH, ± 0.6°C.
<b>Resolution</b>	± 0.4% RH, 0.2°C.
<b>Settings</b>	By Membrane Keyboard on front panel.
<b>Analog Outputs</b>	Two 4 to 20 mA DC retransmission signals - one for each parameter.
<b>Load Driving Capacity</b>	600 Ohms each.
<b>Communication Port</b>	RS485 on Modbus RTU.
<b>Termination</b>	By direct cable or terminals.
<b>Power Supply</b>	24 V DC.
<b>Execution</b>	Wall-mounting.
<b>Enclosure</b>	Industrial-Grade Polycarbonate.
<b>Dimensions</b>	122 x 62 x 27 mm.
<b>Operating Temperature</b>	-20 to +80 deg C.
<b>Rel Humidity</b>	0 to 95% non-condensing.
<b>Weight</b>	Approx. 120 gm.

### FEATURES

- Microcontroller based design
- Precision RH+T ChipCap Sensor
- High Accuracy and Resolution
- Bright OLED Display for both parameters
- Accurate Signal retransmission
- RS485 Communication (on Modbus RTU protocol)
- Low power consumption and heat dissipation.
- Fully configurable
- DC power supply operation.
- Rugged and compact polycarbonate enclosure
- High Noise immunity
- Factory calibrated precision Sensor
- Easy wall-mounting execution.
- Five year warranty on design and workmanship.