Humilink series Digital Transmitter

The Humilink Series are versatile Digital Transmitters designed to provide precise relative humidity and temperature measurements. They offer output signals of 4–20 mA and/or 0–1 V DC, with a 2-wire loop-powered configuration for seamless integration with humidity and temperature indicators. These transmitters are widely used in various applications, including HVAC systems, food processing, pharmaceutical storage, and stability chambers. An optional LCD display allows for Relative humidity and Temperature data monitoring with refresh rate of 3 seconds. The compact design and snap-fit enclosure ensure quick and easy installation for the intended application.

Features:

- Highly Accurate Humidity & Temperature measurement
- Display option available
- Resolution of 0.01 for Display & storage
- Output options to choose from 4-20 mA ; 0-1 V
- Enclosure with vents-allows airflow across the sensor for improved accuracy
- Easy Installation with Snap fit Back cover

Specifications:

General

Series	HL3x series (4-20 mA)
	HL4x series (0-1 Volt)
Display	Yes (Optional); LCD Display showing Temperature and Humidity reading with measurement unit
Display Resolution	0.01 °C & %RH
Integrated Sensor	Solid State MEMS Sensor*

	Temperature	Relative Humidity
Operating Range	0 to 60 °C	0 to 100 %RH (Non-condensing)
Accuracy at 25 °C	± 0.5 °C (10 to 40 °C)	± 2 %RH (20 to 80 %RH)
	± 0.7 °C otherwise	± 3 %RH otherwise
T_{63} Response Time	< 5 -30 Seconds	< 8 seconds
Long-Term Drift	< 0.02 °C per year	< 0.25 %RH per year
Calibration	Each device accompanies NABL (ISO/IEC 17025) traceable certificate	
Note:	*Prolonged operation outside the recommended temperature operating conditions and/or at >80%RH with temperature in the higher recommended operating range can result in a shift of sensor reading, with slow recovery time. Note care needs to be taken when measuring RH at <0 °C due to potential for frost.	

Environmental Specification

|	
Temperature during Transportation and Storage – Device inactivated	5 °C to 60 °C
Temperature during operation	5 °C to 60 °C (EN 12830:1999 Table 3, Climatic Type A)
Humidity During Transportation, Storage and usage	5 to 95% RH non-condensing

Input-Output Specifications

Output analogue signal	4-20 mA, 0-1 Volt
Warm-up time	< 10 sec
Power Supply	10 - 28 V DC
Current consumption	2 x 20 mA max

Physical Characteristics

Overall Dimension (L x W x H) mm	86 x 86 x 25.5 mm
Weight	Approximate 100 gms
Mounting Type	Wall Mount
Enclosure Material	ABS Plastic UL94 V-0
Enclosure IP Rating	IP20

Standards

IP Rating	IP 20
RoHS	Compliant (EU directive 2011/65/EU)

HL30/HL31

HL40/HL41
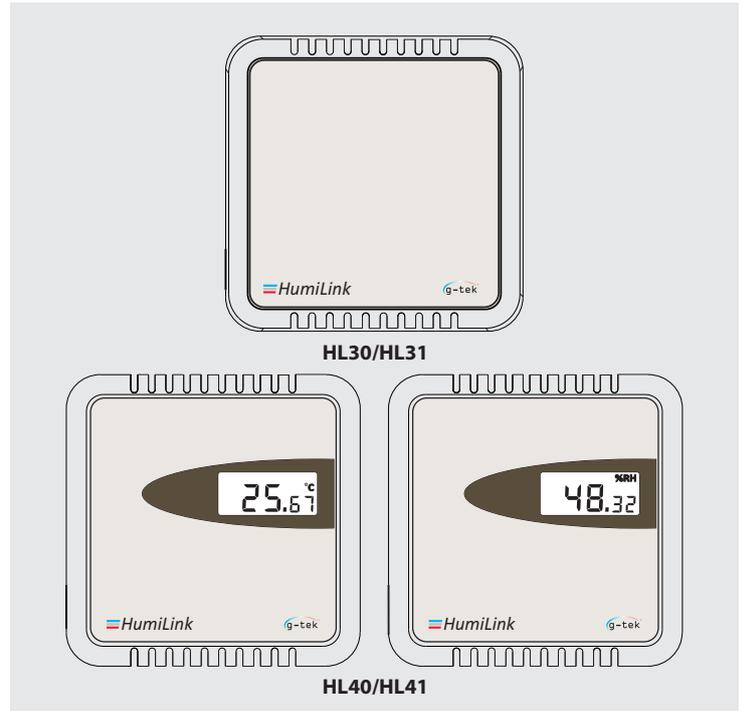
Humidity Digital Transmitter

Model No.	Output
HL30 (Without Display)	4-20 mA
HL31 (With Display)	4-20mA
HL40 (Without Display)	0-1 V
HL41 (With Display)	0-1V

Electrical Installation

Based on the selected model, refer to the diagram and table for the appropriate 4–20 mA or 0–1 V output connection.

- Ensure the power supply is OFF before making connections.
- Use appropriate shielded cables to minimize electrical noise.
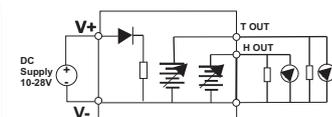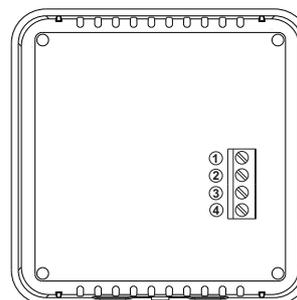- Secure all connections properly to avoid loose wiring.

Model : HL3x series - Current Output
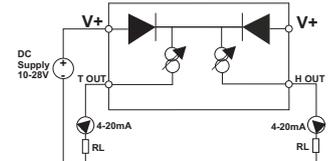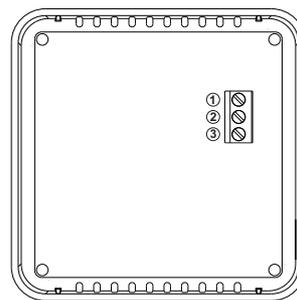
Model No : HL30/31	
Pin No	Connection Description
1.	Supply Voltage Positive (V+)
2.	Temperature Output (T OUT)
3.	Humidity Output (H OUT)

### Model : HL4x series – Voltage Output

Model No : HL40/41	
Pin No	Connection Description
1.	Supply Voltage Positive (V+)
2.	Supply Voltage Negative (V-)
3.	Temperature Output (T OUT)
4.	Humidity Output (H OUT)

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Mechanical Installation

The Digital Transmitter is designed for wall mounting. To ensure accurate measurements, the Transmitter should be positioned to allow proper airflow around it.

- Open the back cover using a flat tool (e.g., screwdriver).
- Break the center circular section for cable entry.
- Secure the back cover to the wall using screws.
- Snap-fit the front cover securely before commissioning.

Push and Open the Back Cover

2X Ø4
2X Ø4 CSK
44 mm
60.3 mm
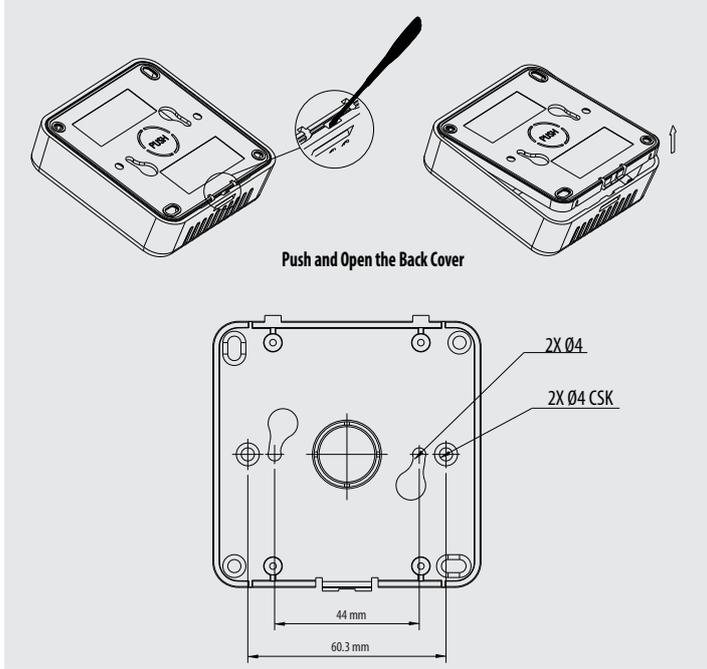
Cautions:

- Wrong supply voltages and excessive output loading can cause harm to the transmitter.
- Protect the sensor from dust, water and excessive heat. Keep the enclosure closed to prevent contamination.
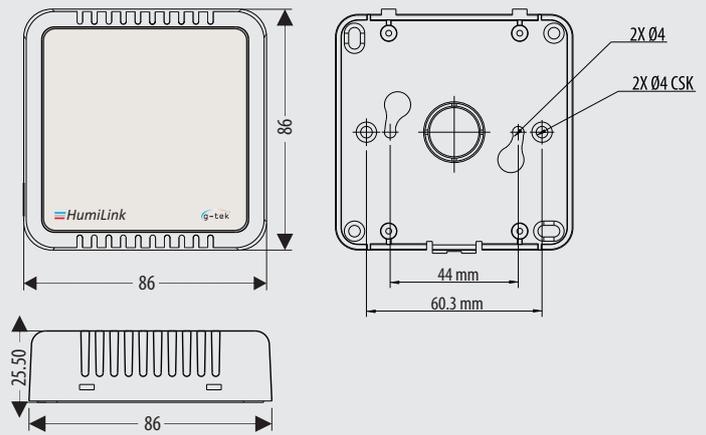- Do not tamper with the pre-installed sensor.

• Your Ordering Code : mail to sales@gtek-india.com

Select your ORDER Code: 9 9 9 3 X

Sample Code: 9 9 9 3 8

Code :
- **8** : HL30
- **4** : HL31
- **3** : HL40
- **2** : HL41

Overall Dimension:

86
86
25.50
86
2X Ø4
2X Ø4 CSK
44 mm
60.3 mm

Overall Dimension:	
Dimension L x W x D (mm)	86 x 86 x 25.50 mm
weight	Approximate 100gms

CE

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001-ISO 14001

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better by performance

Dealer / Representative

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G-TEK CORPORATION PVT. LTD.

"Gunaji House"
Plot No. 25/1, Besides Status Bungalow, Padra Road, Vadodara – 391410.
tel.: +91-98245 24140
e-mail: info@gtek-india.com
url: www.gtek-india.com