MCT80B Temperature and Humidity Transmitter

MCT80B temperature and humidity transmitter is an ideal solution for collecting temperature and humidity signals in various occasions. Its appearance is beautiful and practical, making it easy to install and quickly replace sensing components. MCT80B uses high-quality and high-precision digital temperature and humidity sensors, which have excellent long-term stability, low hysteresis, strong resistance to chemical pollution, and excellent repeatability. This series of transmitters is widely used in building automation, climate and HVAC signal acquisition, climate stations in museums and hotels, warehousing and logistics, and the pharmaceutical industry.

Parameters

(1) Temperature

Range (can be set through a dial switch): 0~+50 ℃/ -20~+80 ℃/ -40~+60 ℃/ customized

Accuracy: ± 0.3 ℃ (typical value)

Resolution: 0.1 ℃

Long term stability:<0.1 ℃/year

(2) Relative humidity

Range: 0-100% RH

Accuracy (including nonlinearity, hysteresis, and repeatability): ± 3% RH

Factory calibration uncertainty: ± 0.6% RH (0-40% RH)/± 1.0% RH (40-97% RH)

Response time (90%) Static air: 8s

Resolution: 0.1% RH

Long term stability: <0.5% RH/year

Work environment

Working environment temperature: -40~80 ℃

Working environment humidity: 0-99.9% non-condensing

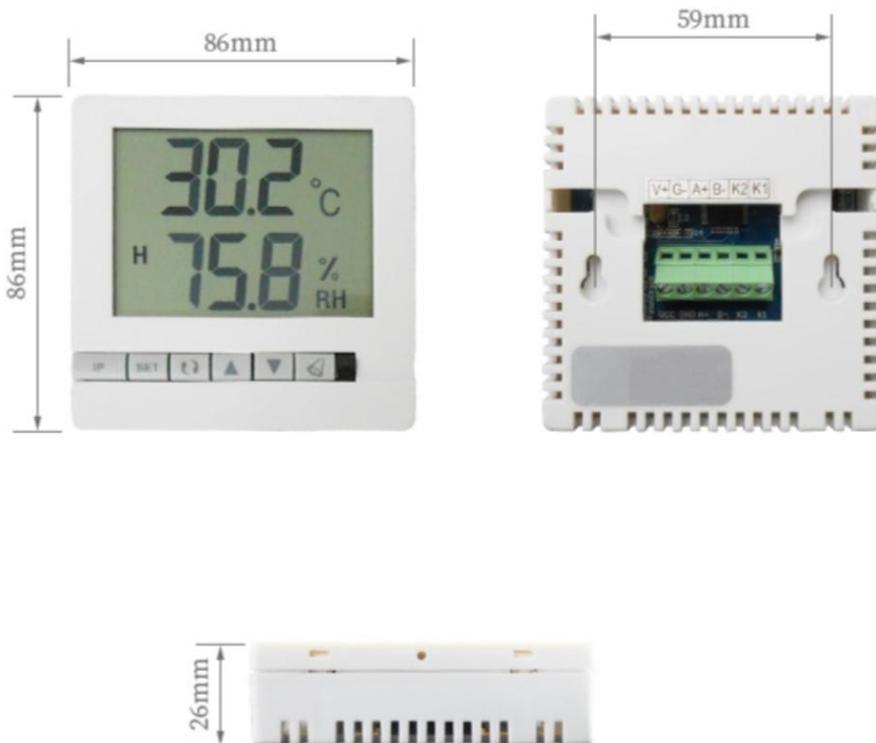Storage range: temperature: 0-60 ℃; Humidity: <90% RH

Working voltage: 12-36VDC

Power on time: 3s

Product power consumption: 15mA (typical)

Output signal: 0-5V; 0-10V; 4-20mA; RS485; Relay output

Model Selection

MCT80B	Temperature & Humidity Transmitter	
-	Measurement	None: Only temperature measurement H: Temperature and humidity measurement
-	Type	I: Integrated S: Split
-	Display	None: without display M: with LCD display
-	Installation	W: Wall-mounted P: Insert (with flange or thread)
-S	Output	1: 4-20mA 2: 0-5V 3: 0-10V 8：RS485 9: Relay 0: customer specified
-	(Temperature Range) and (Humidity Range)	e.g. (0-100℃) or (0-200℉) etc. (0-100%RH)
-	Ex-proof	None: no Ex-proof Ex: Ex-proof type

MCT80B-H-I-M-W (Big Screen):

MCT80B-H-I-M-W (Small Screen):

With Display VS Without Display:

Split Type:
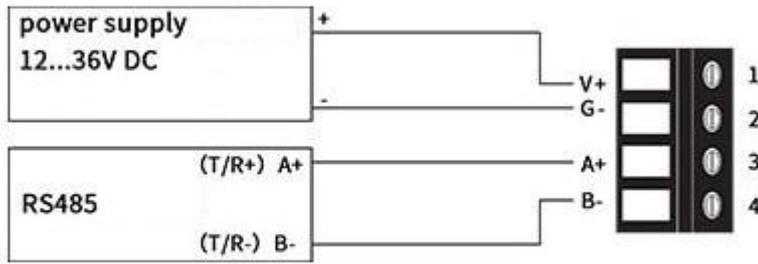

MCT80B-H-I-M-W-Ex:

MCT80B-H-I-P-Ex:

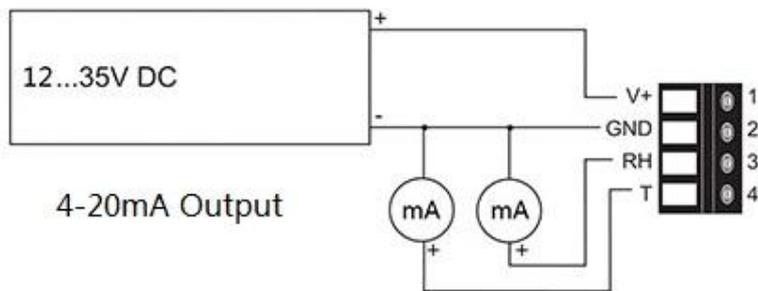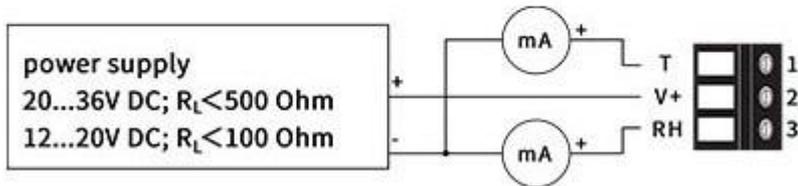**MCT80B-H-I-W-S8:**
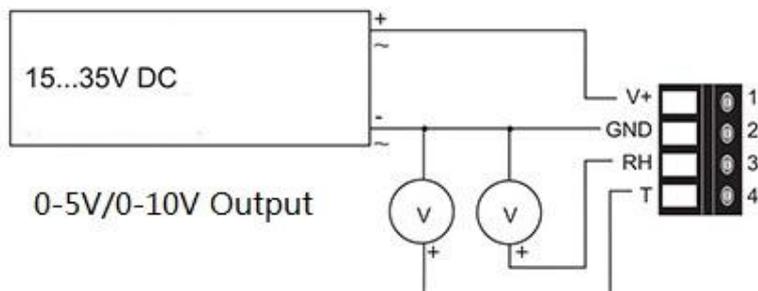

MCT80B-H-I-P:

Wiring:

RS485 Output

4-20mA 3-wires Output

4-20mA Output

0-5V/0-10V Output