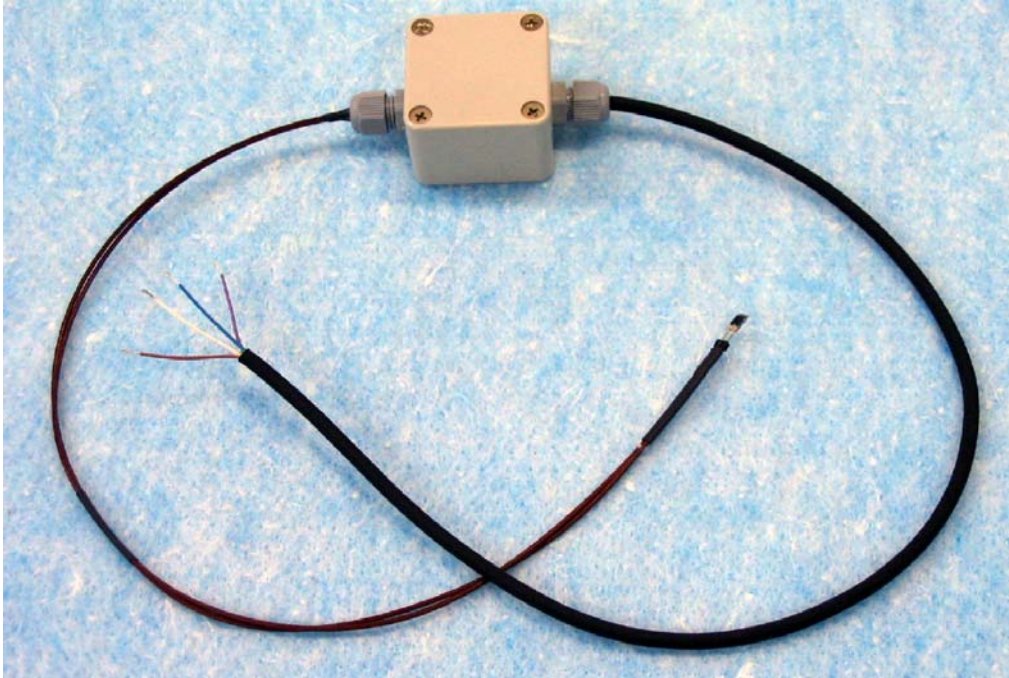


Humidity Transducer TA502RGS

Precise measurements of relative humidity for narrow spaces



TA502RGS

The humidity transducer TA502RGS is designed to meet the demand for precise measurements of relative humidity for narrow spaces. The transducer provides linear analogue output signals such as 0-1V, 0-5V, 1-5V or 4-20mA for relative humidity as user select ability. The transducer utilizes a polymer-based capacitive humidity sensor element, a type TI-A which has been developed as a result of numerous microscopic experiments for research on a humidity sensing mechanism. The TI-A has excellent durability, short response time, low hysteresis and low temperature coefficient that enables extreme accurate measurements for long periods.

Features and Benefits

- The transducer can be used for precise measurements of relative humidity to check the hermeticity.
- The TI-A has a width of 5mm (0.197inches) that can be inserted inside a mere 6mm diameter pipe.
- The TI-A has +/-2%RH interchangeability. This means any adjustments are not required when the sensor is replaced.
- The TI-A applied both hydrophobic and water repellency coatings that protect against condensation and has an excellent durability even in high temperature and humid atmospheres such as 80 °C/90%RH. (Option)



Humidity sensor element TI-A

 **Toplas Engineering Co.,Ltd**

1-9-9 Nishitsutsujigaoka Chofu Tokyo Japan

Tel: + 81 424 90 7377 Fax: + 81 424 90 7378

E-Mail: humidity@toplas-eng.com URL:<http://www.toplas-eng.com>

0512RGS

Specifications

Applicable range of temperature

- - 5 to +55 °C (Electronics)
- -25 to +100 °C (Sensing part)

Measuring range of humidity

- 0 to 100%RH

Accuracy (at 25°C)

- ±2%RH (10 to 90%RH)
- ±3%RH (2 to 10%RH, 90 to 100%RH)

Driving voltage

- DC 9 to 25V

Output

- 0-1V, 0-5V, 1-5V or 4-20mA (User selectable)
- for 0 to 100% RH

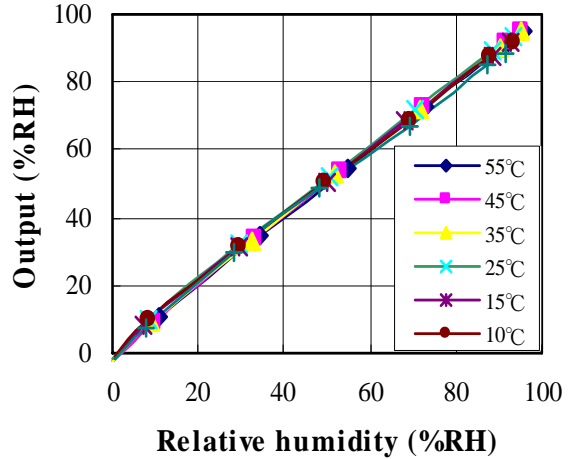
Coaxial sensor cable length

- up to 2m

Output cable length

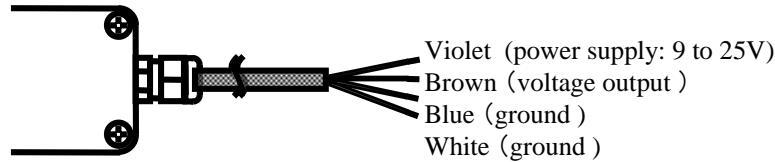
- 0.5m (Standard)

Output Curves

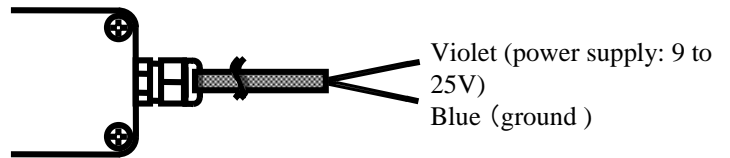


Wiring Diagram

Voltage output



Current output



External dimensions

