

RELATIVE HUMIDITY TRANSMITTER (4 to 20mA)

HM-420-AR

HM-420-AR using HUMIREL HTG3535CH voltage output humidity module is a **dedicated 4 to 20mA relative humidity transmitter** designed for OEM applications. Humidity current output is linear with relative humidity. It features a small size and cost effective for humidity control applications.

SPECIFICATIONS

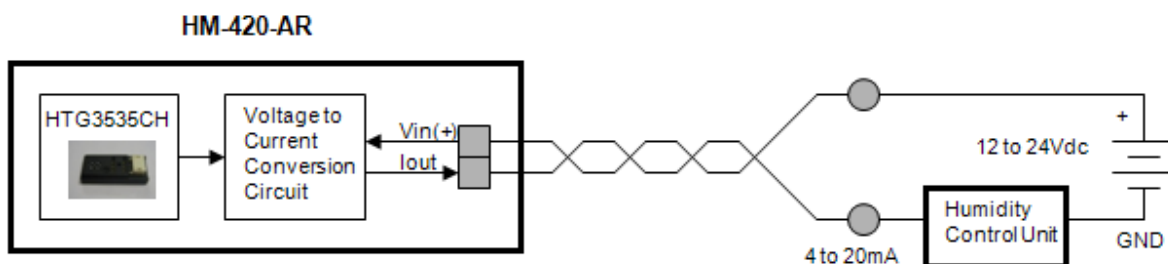
Humidity Measuring Range	0 to 100%RH
Storage Temperature	-40 to 105°C
Temperature Operating Range	-40 to 85°C
Supply Voltage	8 to 30Vdc
Current Consumption	Max. 30mA
Accuracy @ 23°C (35 to 75%RH)	±3%RH
Humidity Hysteresis	±1%RH
Response Time (at 63% of signal)	Max. 10sec
Load Resistance	0 to 750Ω
Humidity Sensor Element	Capacitive Type



HUMIDITY vs CURRENT OUTPUT TABLE @23°C

Humidity(%RH)	0	10	20	30	40	50	60	70	80	90	100
Current Output(mA)	4.00	5.60	7.20	8.80	10.40	12.00	13.60	15.20	16.80	18.40	20.00

ELECTRICAL CONNECTION DIAGRAM



RESISTANCE to PHYSICAL and CHEMICAL STRESSES

- HTG3535CH has passed through qualification processes of HUMIREL including vibration, shock, storage, high temperature and humidity, ESD.
- Additional tests under harsh chemical conditions demonstrate good operation in presence of atmosphere, SO₂(0.5%), H₂S(0.5%), O₃, NO_x, NO, CO, CO₂, Softener, Soap, Toluene, Acids (H₂SO₄, NHO₃, HCl), HMDS, Insecticide, Cigarette smoke, a non exhaustive list.
- HTG3535CH is not light sensitive.

MECHANICAL DIMENSION : CASE OUTLINE

Unit : mm

