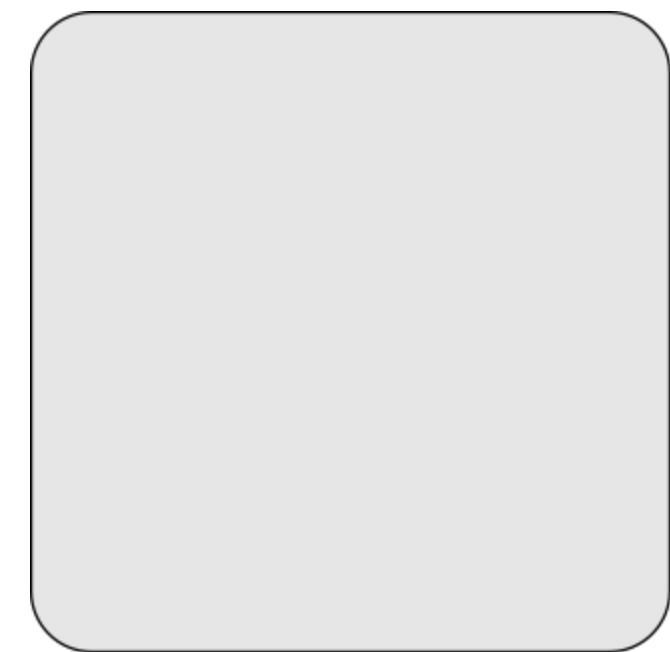


# Temperature and humidity sensor

## Room temperature and humidity sensor



|                                     |                                |
|-------------------------------------|--------------------------------|
| Model number:                       | TS-H                           |
| Mounting:                           | on-wall                        |
| Dimensions:                         | 71×71×27mm                     |
| <b>Require:</b>                     |                                |
| IEX-2 bus expander                  | <a href="#">CAD-BE-PROT-IQ</a> |
| <b>Compatible external sensors:</b> |                                |
| ES temperature probe                | <a href="#">ES</a>             |

## Applications

- room temperature and humidity measurements

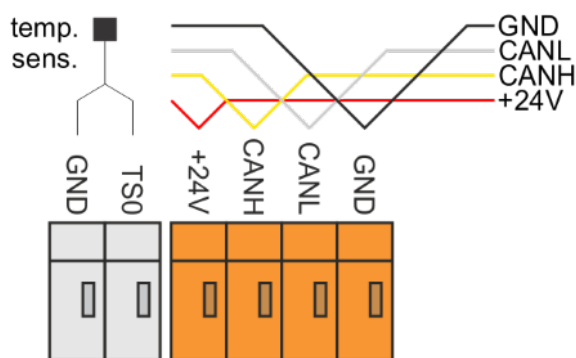
## Technical specification

|                         |                                              |
|-------------------------|----------------------------------------------|
| Temperature measurement | internal and external                        |
|                         | range: 0°C to +50°C                          |
|                         | error: max. ±2°C (0°C to +50°C)              |
|                         | typ. ±0.5°C (0°C to +50°C, backlight at 20%) |
|                         | resolution: 0.1°C (12 bit)                   |
|                         | readout: 0.1°C (254 equals 25.4°C)           |

|                            |                                            |
|----------------------------|--------------------------------------------|
| Humidity measurement       | internal                                   |
|                            | range: 0..100% rh, non-condensing          |
|                            | error: $\pm 2\%$ rh @ 25°C                 |
|                            | response time 15s                          |
|                            | stability $\pm 1\%$ rh @ 50% rh in 5 years |
|                            | resolution 1% (7 bit)                      |
|                            | readout 1% rh (45 equals 45% rh)           |
| Power consumption          | 24V (18..26V), 15mA                        |
| IEX-2 baud rate            | 20, 50, 100, 250, 500kbps, auto selectable |
| Degree of protection       | IP20                                       |
| Operating conditions       | 0..50°C, 0..85% rh non-condensing          |
| Storage temperature        | -20..75°C                                  |
| Mounting                   | wall surface                               |
| Dimension                  | 71x71x27mm                                 |
| Weight gross               | 100g                                       |
| Level of ambient pollution | 2                                          |
| Standards                  | EN 61000-6-2, EN 61000-6-3                 |

## Terminals

|             |                   |       |
|-------------|-------------------|-------|
| <b>TS-H</b> |                   |       |
| GND         | <b>BE-PROT-IQ</b> | GND   |
| CANL        |                   | CANL  |
| CANH        |                   | CANH  |
| +24V        |                   | +24V  |
| TS0         | <b>ES</b>         | red   |
| GND         |                   | black |



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