# Consilium ST450EC $H_2$ Gas Detector (1228006)

| Product reference | |
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| Part No. | 1228006 |
| Manufacturer | Consilium |
| Model | ST450EC-H2 |




## Product overview

Consilium ST450EC international-standard hydrogen detector with a 0-100 %LEL measuring range. The manufacturer ordering table identifies this exact SKU, gas, range and operating conditions; it does not establish stock, current certificate validity, supplied configuration, delivered calibration or site-specific installation compatibility. Before ordering, confirm gas, range, calibration, complete ordering configuration, system compatibility, installation requirements, supplied items and included components, and stock.

## Technical specifications

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| Model designation | ST450EC-H2 | Signal cable (standard) | 2-wire shielded, 0.75 … 2.5 mm2 (excluding earth connection and Modbus) |
| Order code | 1228006 | Signal cable (remote) | 4-wire shielded, 0.75 … 2.5 mm2 (excluding earth connection and Modbus) |
| Gas type | $H_2$ | Cable gland | Standard Brass, optional SS (thread M20x1.5) |
| Measuring range ($H_2$) | 0-100 %LEL | Load impedance | max. 160 Ω at 24 VDC |
| Operating temperature | -30 to +50 °C | Pressure range | Toxic: Atmospheric ± 10%, Oxygen: 80 to 120 kPa |
| Relative humidity (N.C.) | 15-95% | Enclosure material | Coated aluminum or SS |
| Ordering condition footnotes | * Acc. EN 50104: -10 to +50ºC / 20 to 90 r.H. N.C **Acc. EN IEC 62990-1: -25 to +55 °C / 20 to 90 % r.H. N.C | Dimensions | 179 x 189 x 107 mm (HxWxD) |
| Sensor type | Electrochemical sensor (2 or 3 electrodes) | Weight | 1.8 kg (Alu), 3.15 kg (SS) |
| Display | Digital graphic display with backlight | Ingress protection | IP 66 (Sensor IP 6x)* |
| Status LED display | Green: OK, Red: Alarm, Yellow: SF (System Failure), Blue: User menu active | Enclosure gas sensor | SS 316 |
| Power supply | 24-28 VDC (max. 40 mA)(120 mA remote) | IP rating footnote | * IP ratings do not imply that the equipment will detect gas during and after exposure to those conditions. |
| Outputs | Analogue: 4-20 mA (<2.4 mA system failure, >20 mA overrange) Digital: RS485 Modbus RTU (half-duplex) | | |