ST450EC H_2 Gas Detector (0-1000 ppm)

Product reference	
Part No.	1228005
Manufacturer	Consilium Safety Netherlands B.V.
Model	ST450EC



Product overview

Consilium ST450EC international-standard hydrogen detector with a 0-1000 ppm measuring range.

Key features

- The ST450EC uses an electrochemical sensor.
- The image is a manufacturer family illustration showing an H2S display; use the full article number to identify the ordered variant.

Technical specifications

Model	ST450EC	Signal cable (standard)	2-wire shielded, 0.75 … 2.5 mm2 (excluding earth connection and Modbus)
Manufacturer	Consilium Safety Netherlands B.V.	Cable gland	Standard Brass, optional SS (thread M20x1.5)
Order code	1228005	Load impedance	max. 160 Ω at 24 VDC
Gas type	H_2	Pressure range	Toxic: Atmospheric ± 10%, Oxygen: 80 to 120 kPa
Measuring range (H_2)	0-1000 ppm	Enclosure material	Coated aluminum or SS
Operating temperature	-30 to +50 °C	Dimensions	179 x 189 x 107 mm (HxWxD)
Relative humidity (N.C.)	15-95%	Weight	1.8 kg (Alu), 3.15 kg (SS)
Sensor type	Electrochemical sensor (2 or 3 electrodes)	Ingress protection	IP 66 (Sensor IP 6x)*
Display	Digital graphic display with backlight	Enclosure gas sensor	SS 316
Status LED display	Green: OK, Red: Alarm, Yellow: SF (System Failure), Blue: User menu active	IP rating condition	* IP ratings do not imply that the equipment will detect gas during and after exposure to those conditions.
Power supply	24-28 VDC (max. 40 mA)(120 mA remote)	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
Outputs	Analogue: 4-20 mA (<2.4 mA system failure, >20 mA overrange) Digital: RS485 Modbus RTU (half-duplex)		