ST350 Gas Detector (R1234yf, 0-1000 ppm, Aluminium, Standard)

Product reference	
Part No.	5150113-00A
Manufacturer	Consilium / Salwico
Model	ST350



Product overview

ST350 industrial gas detector ordered as R1234yf, 0-1000 ppm, Aluminium, Standard. Original manufacturer ST350 family example; exact housing, LCD and remote configuration depend on the ordered Part No. Other calibrations must be specified when ordering.

Technical specifications

Part no.	5150113-00A	Power supply	17.5-24 V DC; maximum 120 mA.
Model	ST350	Load impedance	Maximum 400 Ω at 24 V DC.
Product type	Gas detector.	Outputs	4-20 mA; RS485 Modbus RTU half-duplex; 2 mA system failure; >20 mA over range.
Compatible systems	CGD50/500; CGS50/500.	Signal cable	3-wire shielded; 0.75-2.5 mm².
Gas type	R1234yf	Cable gland	Aluminium housing: Brass; M20×1.5.
Range	0-1000 ppm	Operating temperature	-10 °C to +50 °C.
Material	Aluminium	Ingress protection	Enclosure IP66; sensor IP6X. IP ratings do not imply gas detection during or after exposure to those conditions.
Version	Standard	Relative humidity	15-95% RH, non-condensing.
Sensor type	BUSENS D, type SCF.	Pressure range	700 to 1300 hPa.
Calibration	Family default calibration: Freon R134a (SCF). Other calibrations must be specified when ordered. Configured gas/range are listed separately.	Enclosure material	Aluminium with coating.
General description	All-round industrial gas detector with replaceable BUSENS D gas sensor; SCV and SCF sensor versions.	Dimensions	179 × 189 × 107 mm (H × W × D).
Family detection scope	Aromatic hydrocarbons and synthetic refrigerant gases (H)CFKs and HFKs.	Weight	1.5 kg ±5% (Aluminium).
SCV sensor suitability	Aromatic hydrocarbons at ppm level, including toluene and xylene, and chemical-industry gases such as carbon disulfide.	Enclosure gas sensor	SS316.
SCF sensor suitability	Synthetic refrigerants (H)CFKs and HFKs, including R134a, R407c and R1234yf.	Certification	ATEX Directive 2014/34/EU; EMC Directive 2014/30/EU; current validity unknown.
ATEX / IECEx scope	ATEX / IECEx approved; current certificate validity unknown.	ATEX approvals	II 2G Ex d IIC T6 Gb; II 2D Ex tb IIIC T85°C Db.
Control interface	Family LCD-version feature: Capacitive key control similar to a touchscreen; no additional tools required.	IECEx approvals	Ex d IIC T6 Gb; Ex tb IIIC T85°C Db.
Self-diagnostics	Included.	Mounting	Vertical position with sensor pointing downwards.
Splashguard	Included.	Installation clearance	At least 11 cm free space below the sensor head for splashguard removal and bump-test hose connection.
User menu	Family LCD-version feature: Zero and span calibration, alarm set-point adjustment, set-point display, diagnostics, and 4-20 mA output simulation.	Applications	Refrigeration; soil remediation; painting and printing ink industries; spraying booths and dry cabins; shipping; storage of dangerous goods; chemical industry.
Password protection	Family LCD-version feature: User menu secured with a password.	Optional accessories	Inline flow adapter 5150228-00A; protective hood 5150226-00A; isolation set EMC/RFI 5150231-00A; protective bracket 5150225-00A; conical collector hood 5150230-00A. Optional; not assumed standard.

Status LED	Green: OK; red: alarm; yellow: system failure.	Spare gas sensors	BUSENS D SCV 5150232-00A and BUSENS D SCF 5150233-00A; range/calibration dependent.