

Handheld multi-range gas leak detector for R1234yf and R134a

- Switchable handheld multi-range gas leak detector with suction pump for the selective detection of the refrigerants R1234yf respectively R134a
- Display of the detected gas concentration value from low ppm range up to 2000 ppm respectively 0,1 g/a up to 245 g/a (R1234yf) and 220 g/a (R134a)
- Additional display of the detected gas concentration value from low ppm range up to 1000 ppm by bar graph
- Additional display of concentration thresholds (g/a) by LED
- Automatic zero setting and measuring range change-over
- Intermittent tone signal reflecting concentration value by speed and continuous tone signal if detected concentration value > 2000 ppm respectively 245 g/a (R1234yf) and 220 g/a (R134a) - can be switched off
- Automatic sensor check with error recognition
- Separate charger for recharging of built-in battery power pack



Selected technical data

Measurement ranges R1234yf and R134a	1 ppm ... 999 ppm, 0,1 Vol%... 0,2 Vol%	Operating time (battery power pack is fully charged)	ca. 6 h
	0,1 g/a... 245 g/a(R1234yf) resp. 220 g/a (R134a) at 50 ml/min flow rate	Allowable operating temperature	-5 °C... +40°C
Resolution	1 ppm / 0,1 Vol%, 0,1 g/a depending on the display range	Allowable storage and transportation temperature	-25 °C ... +70°C
Response time	ca. 2 s	Allowable storage and transportation humidity	20... 80 % r. H. (non-condensing)
Time to operation readiness	< 120 s	Allowable conditions for operating, transport and storage	
Gas sensor	MOX gas sensor UST Triplesensor®	Any contamination of the gas sensor must be avoided. The application, transport and storage environment has to be free of any contamination, particularly protected against chemical substances, e.g. silicones. In particular directly contact with substances containing, silicones, sulphurous substances or non-desorbing inorganic components or contaminations (e.g. smoke, fumes, oils, greases or evaporating liquids) may cause damaging the sensor or to changes in the sensor resistance and/or in the sensor characteristics. Possible consequences are reduced sensitivity, display of misleading concentration values, or display of a background concentration.	
Flow rate of suction pump	ca. 50 ml/min	Conformity	
Dimensions (Length x Width x Height)	ca. 180mmx50mmx28mm (without sensor extension flex)	2011/65/EU: Restriction of the use of Hazardous Substances Directive (RoHS)	
Sensor extension flex (Length)	ca. 300 mm (standard), ca. 500 mm (optional)		
Net weight	ca. 420 g (without charger)		
Power consumption	ca. 0,85 VA		
Rechargeable battery power pack	4 x 1,2 V NiMH to be charged from the mains using the charger supplied with the gas leak detector		

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