

PolyGard® Portable Gas Measuring Device Series ADL-X1-20XX incl. Datalogger for Refrigerant Gases

DESCRIPTION

Portable gas measuring device with integrated datalogger for the continuous monitoring of the ambient air to detect the presence of refrigerant gases and vapours. Up to 16.000 measuring values are recorded in the datalogger.

APPLICATION

For the detection and recording of Freon refrigerant agents in a wide range of commercial applications.



Standard housing

FEATURES

- Suitable for refrigerant gases and vapours
- Measuring cycle adjustable from 2 sec. to 5 hours
- Datalogger for 16.000 measuring values
- Data readout via the USB port
- Internal rechargeable battery: Lifetime according to sensor type
- Certified calibration

RoMiotto Instrumentos de Medição
RoMiotto Instrumentos de Medição Ltda
Rua São Leonardo, 187 - Freguesia do Ó - São Paulo - SP
Cep: 02803-000 | Fone.: (11) 3976-4003 - Fone.: (11) 3999-7737
www.romiotto.com.br | E-mail: info@romiotto.com.br

SPECIFICATIONS

Electrical

Power supply	Rechargeable battery; 6 VDC
Power consumption	Ca. 30 mA

Gases

Internal sensor	Refrigerant gases/ Freons (see Ordering Information)
Sensor data	See corresponding datasheet of ADT transmitter

Output signal

Measuring signal sensor	0 – 5 VDC proportional
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Data output	USB port
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Visualisation

Display (optional without display)	LCD display
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Battery data (standard type)

Tension	6 VDC
Capacity	2,8 Ah
Supply duration	ca. 90 h with fully charged battery
Deep discharge voltage	5,5 V
Type	Lead battery

Ambient conditions

Humidity	15 – 95 % RH non-condensing
Working temperature	-10 °C to + 50 °C (14 °F to 122 °F)
Storage temperature	5 °C to 30 °C (86 °F to 122 °F)
Pressure range	Atmospheric ± 10 %

Physical characteristics

Enclosure plastic version type E	Polycarbonate
Flammability	UL 94 V2
Enclosure colour	RAL 7032 (light grey)
Dimensions (W x H x D)	97 x 130 x 81 mm (3.82 x 5.12 x 3.19 inch.)
Weight	Approx. 0.95 kg (2 lbs.)

Guidelines	EMC Directive 2004/108//EEC
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Warranty	One year on material (without sensor)
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Optional accessories

Charging device ADL-X1-Charger

Supply voltage	230 VACV/ 50 Hz
Output voltage	2, 6, 12, 24 VDC (Autom. adaptation to battery)
Charging characteristics	IU
Trickle charge	Approx. 20 mA
Capacity range	2.4 – 24 Ah
Charge current	700 mA at 6 V

High power battery ADL-X1-Accu	On request
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Software and USB adapter ADL-X1-Soft

Software	MINISOFT
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GAS ALARM SYSTEMS

ORDERING INFORMATION

ADL-X1-20XX-X-XXXX

Version

¹ BXXX	Factory calibration 20 - 300 ppm
² FXXX	Factory calibration 0 - 2000 ppm
³ PXXX	Factory calibration 20 - 2000 ppm
X2XX	Recharg. battery for semi-conductor sensor
X3XX	Recharg. battery for IR sensor
XX2X	Fastening eye
XXX1	With display
XXX2	Without display

Enclosure

E	Plastic (standard)
H	Plastic (for infrared sensors)

Gas types

41-2070	R 22	HCFC	Semi-cond.	20 – 2000 ppm ³
41-2071	R 401a	HCFC	Semi-cond.	20 – 2000 ppm ³
41-2072	R 401b	HCFC	Semi-cond.	20 – 2000 ppm ³
41-2073	R 402a	HCFC	Semi-cond.	20 – 2000 ppm ³
41-2074	R 402b	HCFC	Semi-cond.	20 – 2000 ppm ³
41-2075	R 408a	HCFC	Semi-cond.	20 – 2000 ppm ³
41-2076	R 409a	HCFC	Semi-cond.	20 – 2000 ppm ³
41-2064	R 123	HCFC	Semi-cond.	20 – 2000 ppm ³
41-2077	R 134a	HFC	Semi-cond.	20 – 300/ 2000 ppm ^{1,3}
41-2078	R 404a	HFC	Semi-cond.	20 – 300/ 2000 ppm ^{1,3}
41-2079	R 416a	HFC	Semi-cond.	20 – 300/ 2000 ppm ^{1,3}
41-2069	R 507	HFC	Semi-cond.	20 – 300/ 2000 ppm ^{1,3}
41-2068	R 410a	HFC	Semi-cond.	20 – 300/ 2000 ppm ^{1,3}
41-2067	R 411a	HFC	Semi-cond.	20 – 300/ 2000 ppm ^{1,3}
D1-2064	R 123	HCFC	Infrared	0 – 2000 ppm ²
D1-2065	R 125	HFC	Infrared	0 – 2000 ppm ²
D1-2070	R 22	HCFC	Infrared	0 – 2000 ppm ²
D1-2077	R 134a	HFC	Infrared	0 – 2000 ppm ²
D1-2078	R 404a	HFC	Infrared	0 – 2000 ppm ²

Further gases on request

Example: Datalogger ADL for R 134a, semi-conductor sensor, 20 – 2000 ppm, with display

Order No.: ADL-41-2077-E-P201

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