



Description: : Gas detection control unit for measurement of flammable and/or toxic gases as well as oxygen. Display. Menu guided configuration. 2 alarm levels. 2 alarm, horn and fault relays. Analogue output 4...20

mA (only ET-1DA).

Article-No.	Wall mounted	DIN-Rail	Control panel	19"-Rack
	230 V / 24 V	230 V / 24 V	230 V / 24 V	230 V / 24 V
ET-1D	303010	303011	303014	303015
ET-1DA	305010	305011	305014	305015

Features

Number of Transmitters: 1 (4-20 mA)

Signal Processing: Microcontroller with A/D-Converter

Alarm/Fault/Indication: Illuminated 4-lined display for indication of measured values, messages and alarms, bar graph indication of concentration

Green operation LED

2 reds alarm LEDs (alarm level 1 and 2)

yellow LED for indication of device and transmitter fault

User Interface: Menu guided system via display and keys

Completely configurable at device, no tools needed

Password protection

Alarm Evaluation: 2 freely adjustable alarm levels

Monitoring: over-scale or under-scale Latching of each alarm configurable

4 change-over contacts 230 V / 5 A (total power consumption: max. Relays, potential free:

10 A) for Alarm 1 and 2, fault, horn

Additional Features: Adjustment of zero point and sensitivity of measuring channel

Alarm locking in maintenance mode Horn alarm separately reset able 2 Digital inputs, potential free

Analogue Outputs 4...20 mA (only ET-1DA)

Operation Temperature: : -10 °C to +40 °C

: -25 °C to +60 °C, Humidity: non-condensing Storage Temperature:

Electrical Features

Power Supply: : 230 V AC or 24 V DC (selectively useable)

Power Consumption: : 20 W (230 V AC: max. 0.08 A, 24 V DC: max. 0.8 A)

Conformity

EC-Directives: : (© II (3)G

2014/34/EU (ATEX), 2014/30/EU (EMV), 2014/35/EU (LVD)

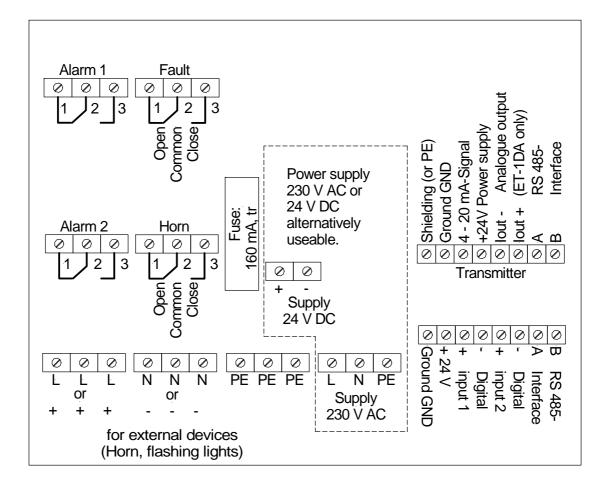
Measuring Function: : Designed acc. to

DIN EN 60079-29-1

DIN EN 45544-1 to DIN EN 45544-3

DIN EN 50104

I/O-Connection Scheme



Relays Configuration

Relay 1 and 2: : Alarm 1 and 2 (freely configurable at device: Alarm levels, latching

alarm, open-circuit/closed-circuit principle)

Relay 3: : Device and transmitter fault (freely configurable at device: open-

circuit/closed-circuit principle)

Relay 4: : Horn (freely configurable at device: allocation to Alarm 1 or 2, open-

circuit/closed-circuit principle)

Standard Settings: : • Alarm 1, 2 and fault: closed-circuit principle

Horn: open-circuit principle, allocated to Alarm 2

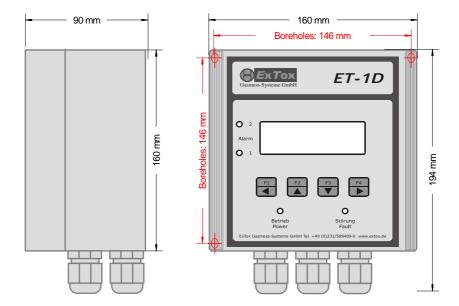
Alarm 2: latching

Options: : Adjustment acc. to customer requirements:

on factory-sided delivery

at location by ExTox-Service

Type Wall Mounted



Type: : Wall mounted housing for fix installation

Dimension (WxHxD): : 160 mm x 194 mm x 90 mm

Material: : Housing ABS

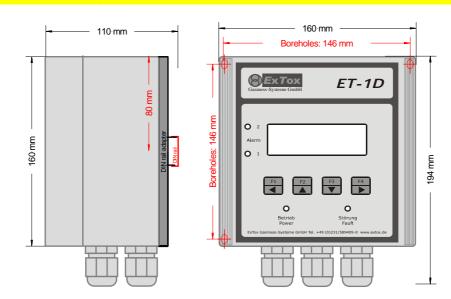
Enclosure Rating: : IP 54

Cable Gland: : • 1 \times M20 \times 1.5 (diameter of cable 7-13 mm) • 5 \times M16 \times 1.5 (diameter of cable 5-10 mm)

Installation Hints: : • Lead-through for mounting screws: d= 4.5 mm

 The housing can be opened for installation and maintenance purposes by tucking up the cover. Provide free space above the housing.

Type DIN-Rail



Type: : Identical to wall mounted type, but additionally with adapters for installation on Standard DIN-Rails 35 mm \times 7.5 mm

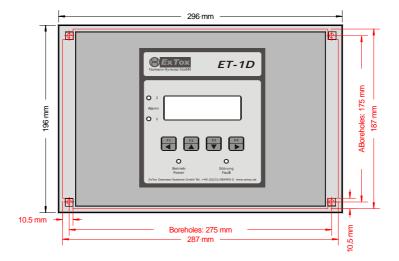
Installation Hints: : • Adapters are mounted on the back plate to snap-in the housing on the DIN-rails.

• The housing can be opened for installation and maintenance purposes by tucking up the cover. Provide free space above the housing.

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Type Control Panel



Type: : Installation in control panels or cabinets. Indication/Controller to be installed

in front cut-out. I/O-clamp terminal can freely be positioned on mounting

places.

Dimension (WxHxD): : 296 mm x 196 mm x 80 mm (Indication/Controller)

160 mm x 160 mm x 40 mm (I/O-clamp terminal)

Material: : Front lid: Polystyrene with double front seal

Enclosure Rating: : IP 54 (front lid)

Installation Hints: : • Lead-through for mounting screws: d= 3 mm

I/O-clamp terminal for remote installation inside the cabinet:

Bore holes: 146 mm x 146 mm,

Connection cable: ca. 1.8 m (special length on demand)

Front lid for adaption to customer specific dimensions of control panel

cut-out

Type 19"-Rack

Options:

Type: : Identical to Control Panel Type, but built-in 19"-frame rack

Dimension (WxHxD): : 482.6 mm (84 TE) x 265.35 mm (6 HE) x 185 mm

(Subject to technical changes)