



**Description:**

Gas detection control unit for measurement of flammable and/or toxic gases as well as oxygen. Smoke detection as option. Graphic display. Menu guided configuration. 3 Alarm levels per channel. 24 freely configurable relays. Analog outputs 4...20 mA (only ET-8DA).

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-8D	320000	320003	320006	320007	320001	320004	320008	320009
ET-8DA	322000	322003	322006	322007	322001	322004	322008	322009

**Features**

- Number of Transmitters: 1 to 8 (4-20 mA)
- Signal Processing: Microcontroller with A/D-Converter
- Alarm/Fault/Indication:
  - Illuminated graphic display (240 x 64) for indication of measured values, messages and alarms
  - 24 (3 x 8) red LEDs for alarm indication
  - LEDs for indication of channel fault (8 x yellow), channel operation (8 x green), operation (1 x green), device fault (1 x yellow)
- User Interface:
  - Menu guided system via graphic display and keys
  - Completely configurable at device, no tools needed
  - 3 password protected servicing levels
- Alarm Evaluation:
  - 3 freely adjustable alarm levels per channel
  - Monitoring: over-scale, under-scale or min/max
  - Latching of each alarm configurable
- Relays, potential free:
  - 24 change-over contacts 230 V / 5 A, ohmic (in total: max. 10 A), freely configurable with Alarm 1 to 3 and transmitter fault
  - 2 change-over contacts 230 V / 5 A, ohmic, for maintenance mode and device fault
- Additional Features:
  - Adjustment of zero point and sensitivity of measuring channels
  - RS 232/RS 485-Interface for communication with external periphery (PC or PLT-System)
  - Key switch function (maintenance mode)
  - Horn reset
  - Reactivation of alarms
  - 4 Digital inputs, potential free
  - 8 Analog outputs 4-20 mA/0-10 V, potential free (only ET-8DA)
- Operation Temperature: -10 °C to +40 °C, Humidity: non condensing
- Storage Temperature: -25 °C to +60 °C, Humidity: non condensing
- Options: ProfiBus, ModBus, Ethernet connection, Visualisation ET-View, ... (with integrated ProfiBus DP-Module: ET-8DP, 230 V (Art. 320010), ET-8DP, 24 V (Art. 320011))

# Gas Detection Control Unit ET-8D(A)

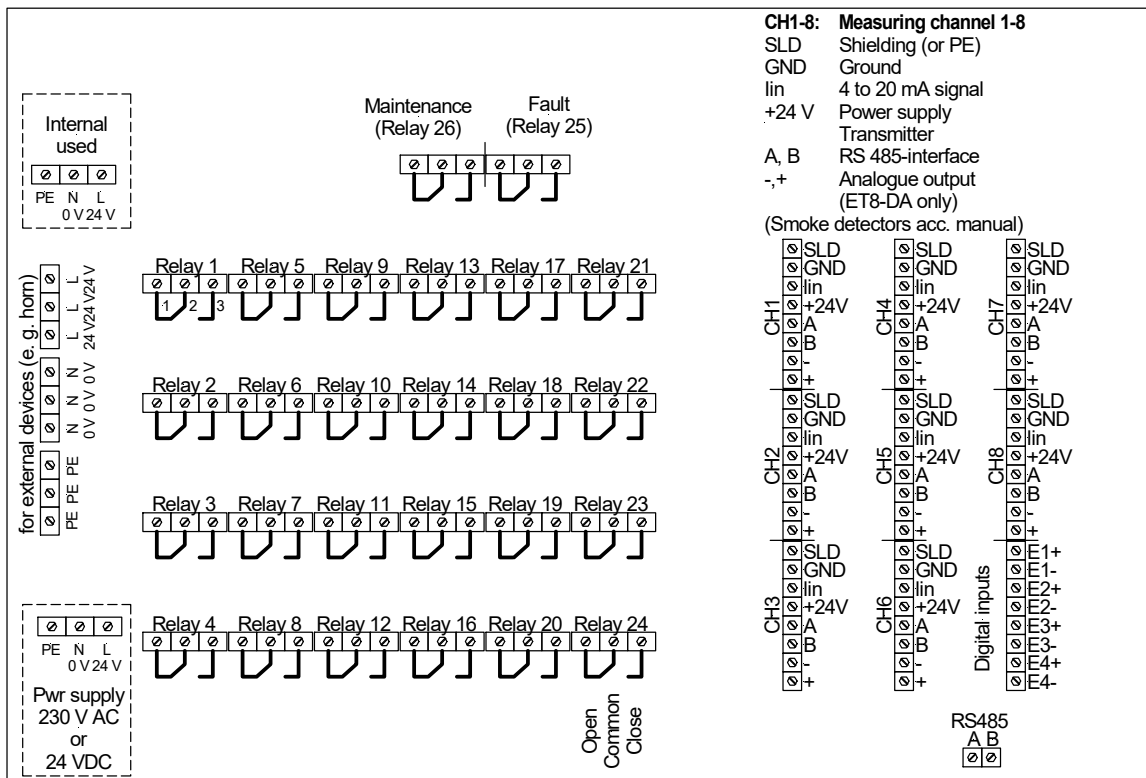
## Electrical Features

- Power Supply:
  - 230 V AC (85...264 V AC, 47...440 Hz / 120...340 V DC) or
  - 24 V DC
- Power Consumption: 65 W (230 V AC: max. 0.3 A , 24 V DC: max. 3 A)

## Conformity

- EC-Directives: CE II (3)G
- EC-Type Test: 2014/34/EU (ATEX), 2014/30/EU (EMV), 2014/35/EU (LVD)  
BAM 10 ATEX 0301 X (Art. 320000, 322000, Software ET881118, acc. to Standards EN 60079-29-1:2007, EN 50271:2001)
- 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

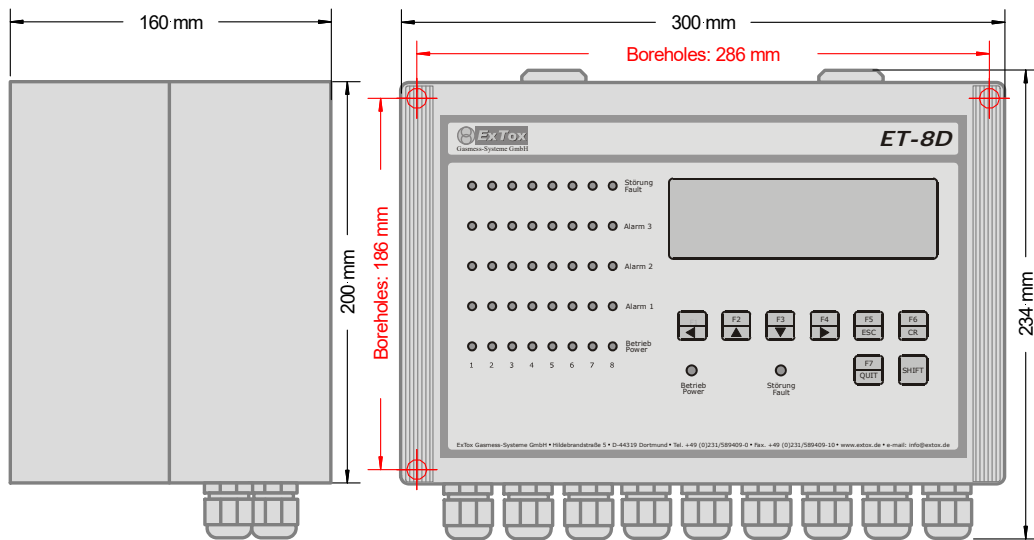


## Relay Configuration

- Relay 1 to 24: Freely configurable at device (Alarm 1 to 3, fault, reset able, open-circuit/closed-circuit principle, logic linking AND/OR)
- Relay 25: Device fault
- Relay 26: Maintenance mode
- Standard Settings:
- Relay 1 to 8: 1. Alarm of channels 1 to 8
  - Relay 9 to 16: 2. Alarm of channels 1 to 8
  - Relay 17 to 20: not used
  - Relay 21: 1. Common Alarm of channels 1 to 8
  - Relay 22: 2. Common Alarm of channels 1 to 8
  - Relay 23: 3. Common Alarm of channels 1 to 8
  - Relay 24: Common fault of channels 1 to 8
- All relays: closed-circuit, non reset able  
(deviations possible when used in ExTox IMC, in special versions or in combination with smoke detectors)
- Option: Adjustment acc. to customer requirements:
  - on factory-sided delivery
  - at location by ExTox-Service

# Gas Detection Control Unit ET-8D(A)

## Type Wall Mounted



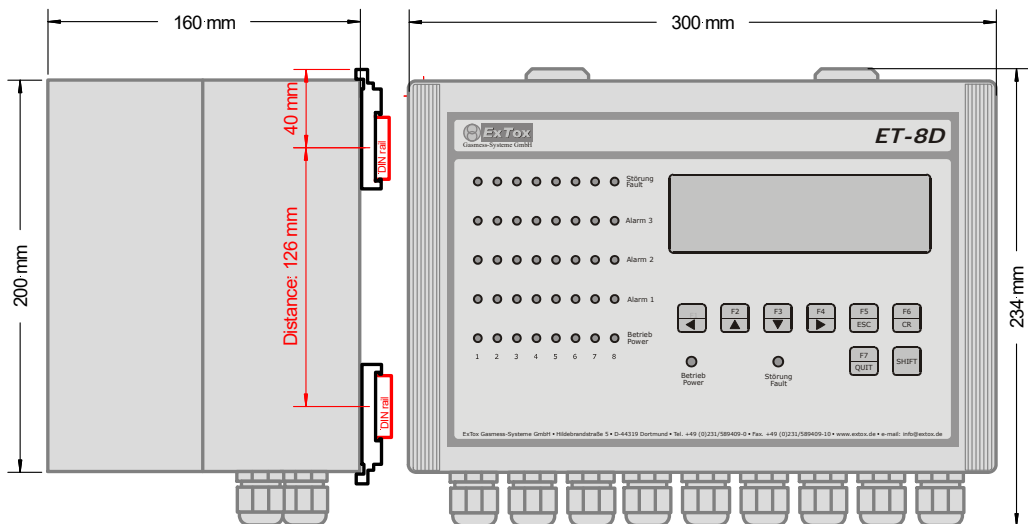
Type:  
Dimension (WxHxD):  
Material:  
Enclosure Rating:  
Cable Gland:

Installation Hints:

Wall mounted housing for fix installation  
300 mm x 234 mm x 160 mm  
Housing ABS  
IP 54

- 1 x M20 x 1.5 (diameter of cable 7-13 mm)
- 15 x M16 x 1.5 (diameter of cable 5-10 mm)
- 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:

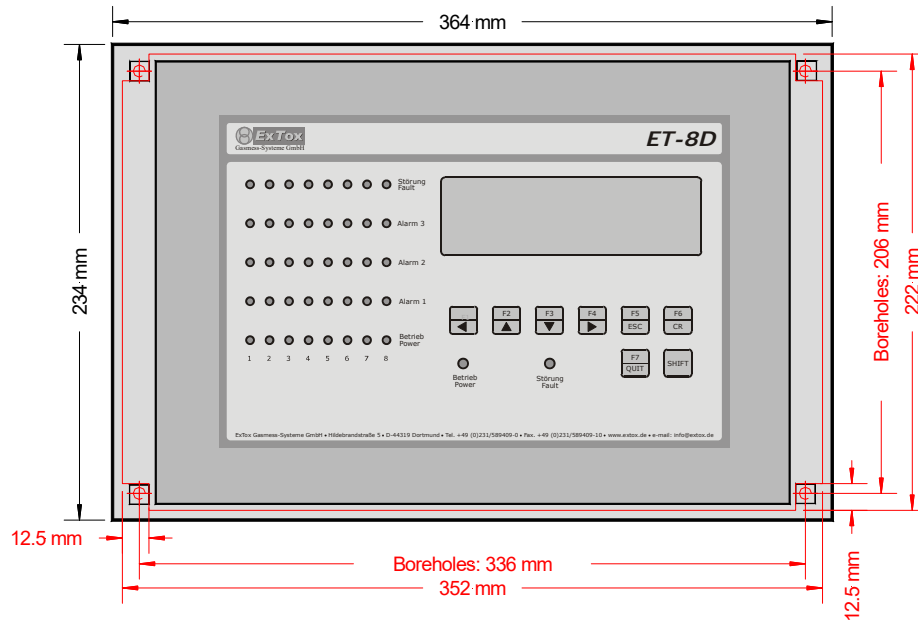
Installation Hints:

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

- Adapters are mounted on the back plate to snap-in the housing on the DIN-rails. The connection can easily be loosened by a screw-driver. Pull up the nozzle of the adapter.
- The housing can be opened for installation and maintenance purposes by tucking up the cover. Provide free space above the housing.

# Gas Detection Control Unit ET-8D(A)

## 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): 364 mm x 234 mm x 80 mm (Indication/Controller)  
300 mm x 200 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: 286 mm x 186 mm,  
Connection cable: ca. 1.8 m (special length on demand)
- Options:
- I/O- clamp terminal not remote: installation is done on the backside of the controller PCB. Depth of complete device: ca. 160 mm
  - Front lid for adaption to customer specific dimensions of control panel cut-out

## Type 19"-Rack

- 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)