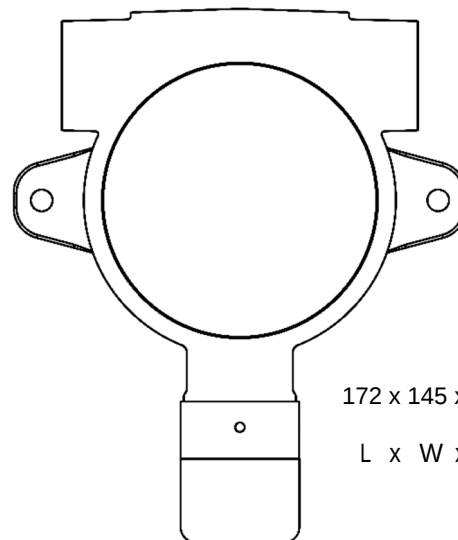


ATX/CAL

SERIAL and 4 ÷ 20 mA

ATEX – COMBUSTIBLE GAS DETECTOR

II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T=60 C Db



172 x 145 x 108 mm

L x W x H

The combustible gas detectors of the ATX / CAL series are **ATEX** and **IECEx** certified and with **IP68** degree of protection of housing and **IP64** degree of protection of sensor module. They use professional catalytic sensors. They are designed to be connected to analytic control panels with **4 ÷ 20 mA** inputs (like MODULA 4 and MODULA 8) or to digital control panels via **RS485** serial connection (like MODULA 40 and MODULA 128). ATX detectors are suitable for use in all industrial and commercial applications where the detection of combustible gases is required.

ATX detectors are certified ATEX and IECEx for gas and dust tight

II 2G Ex db IIC T6 Gb

II 2D Ex tb IIIC T=60 C Db

They are suitable for installation in ATEX classified **ZONE 1**; areas where explosive atmospheres may be present, during normal operations; they are also suitable for installation in ATEX classified ZONE 2.

They are suitable for the gas detection in refineries, compression stations, pharmaceutical plants, chemical and petrochemical plants, gas turbines, combustible gas deposits and laboratories.

The head of the detector ATX / CAL use a catalytic sensor module of high quality and precision combined with industrial-type control electronics, it is replaceable to allow rapid and reliable maintenance of the systems and has an operating life of 5 years.

The aluminium alloy container makes the detector particularly suitable for environments with strong chemical aggression giving it a high mechanical resistance.

Thanks to the high selectivity, the ATX / CAL detectors are resistant to interfering gases or combustible vapours often present in industrial environments.

The detectors comply with the following standards:

EN 50270, CEI 216/5-3
IEC 60079-0, IEC 60079-1
IEC 60079-31
EN ISO/IEC 80079-34:2011
ISO/IEC 80079-34:2018

Features

- ▲ Linear transmitter 4 ÷ 20 mA (3 wires) and digital RS485
- ▲ Wide range of supply voltage (10 ÷ 30 Vdc)
- ▲ Catalytic sensor
- ▲ Low energy detector
- ▲ Corrosion and impact resistant aluminium container
- ▲ Degree of protection IP66
- ▲ Fault signalling during preheating or in case of sensor failure
- ▲ Standard versions for 21 types of gas and versions on request for gas and / or with different measuring ranges

AVAILABLE VERSIONS

B40-ATX/CAL01	4 ÷ 20 mA 10/30 Vdc CH ₄ (METHANE)
B40-ATX/CAL02	4 ÷ 20 mA 10/30 Vdc LPG
B40-ATX/CAL04	4 ÷ 20 mA 10/30 Vdc HYDROGEN
B40-ATX/CAL05	4 ÷ 20 mA 10/30 Vdc GASOLINE VAPOUR
B40-ATX/CAL06	4 ÷ 20 mA 10/30 Vdc PROPANE
B40-ATX/CAL07	4 ÷ 20 mA 10/30 Vdc BUTANE
B40-ATX/CAL08	4 ÷ 20 mA 10/30 Vdc ETHYLENE
B40-ATX/CAL09	4 ÷ 20 mA 10/30 Vdc ETHANOL
B40-ATX/CAL10	4 ÷ 20 mA 10/30 Vdc METHANOL
B40-ATX/CAL11	4 ÷ 20 mA 10/30 Vdc ACETYLENE
B40-ATX/CAL12	4 ÷ 20 mA 10/30 Vdc PENTANO
B40-ATX/CAL13	4 ÷ 20 mA 10/30 Vdc AMMONIA
B40-ATX/CAL14	4 ÷ 20 mA 10/30 Vdc TOLUENE
B40-ATX/CAL15	4 ÷ 20 mA 10/30 Vdc XYLOL
B40-ATX/CAL16	4 ÷ 20 mA 10/30 Vdc ACETONE
B40-ATX/CAL17	4 ÷ 20 mA 10/30 Vdc HEXANE
B40-ATX/CAL18	4 ÷ 20 mA 10/30 Vdc ETHANE
B40-ATX/CAL19	4 ÷ 20 mA 10/30 Vdc METHYLETHYLKETONE
B40-ATX/CAL20	4 ÷ 20 mA 10/30 Vdc CYCLOPENTANE
B40-ATX/CAL21	4 ÷ 20 mA 10/30 Vdc PROPYLENE
B40-ATX/CAL22	4 ÷ 20 mA 10/30 Vdc ISOBUTANE

Accessories and options

B98-BG1 50 ml propane-butane spray can for testing

COMPATIBLE CONTROL PANELS

MODULA4	Control panel with linear line 4÷20 mA - 4 zones
MODULA8	Control panel with linear line 4÷20 mA - 8 zones
MODULA40	Control panel with linear line 4÷20 mA - 8 zones and 32 zones on RS485 communication line
MODULA128	Control panel with linear line 4÷20 mA - 8 zones and 128 zones on RS485 communication line

Compatible with all control panels equipped with 4 ÷ 20 mA inputs

ATX/CAL

COMBUSTIBLE GAS DETECTOR

Application example

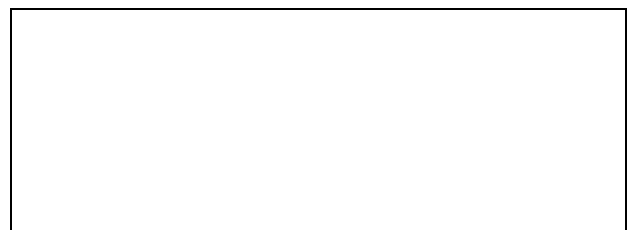
- ▲ Refineries
- ▲ Compression stations
- ▲ Pharmaceutical plants
- ▲ Chemical and petrochemical plants
- ▲ Gas turbines
- ▲ Combustible gas deposits
- ▲ Laboratories
- ▲ And any other installation in ATEX zone 1 and ATEX zone 2

Technical specifications

POWER SUPPLY	
Power supply voltage:	10÷30 Vdc
Electrical absorption:	95 mA@10 Vdc; 50 mA@30 Vdc
WORKING ENVIRONMENT	
Operating temperature:	-20 / + 55°C
Relative humidity:	20 ÷ 95% without condensation
Degree of protection:	housing IP68 sensor module IP64
MECHANICS	
Dimensions:	172 x 145 x 108 mm
Weight:	1400 gr
Color:	Grey (RAL 9007)
Container:	Body in corrosion resistant aluminium alloy; stainless steel screws and sensor head Epoxy painting
Mounting:	Wall
SENSOR	
Type:	Catalytic
Preheating time:	< 30 seconds
Measuring range:	0-30% L.E.L. per all gases Based on specific needs, it is possible to provide customized measuring ranges (max 0-50% L.E.L.)
Average life:	5 years
Further characteristics:	High selectivity, resistant to exposure to interfering gases and vapours
COMMUNICATIONS	
Type:	Linear 4÷20 mA (3 wires), digital RS485
Range:	4÷20 mA
Shutdown:	0 mA
Failure:	< 2 mA
Over range:	22 mA Short circuit output protection EN 50270, CEI 216/5-3 IEC 60079-0, IEC 60079-1 IEC 60079-31
COMPLIANCE	
	EN ISO/IEC 80079-34:2011 ISO/IEC 80079-34:2018
WARRANTY	
	Two (2) years



BELT DETECTION S.r.l.
Strada del Fornacino, 108/b
10040 Leini (TO) - Italy
Tel. (+39) 011.9966033
Fax (+39) 011.5262731
info@beltdetection.com
www.beltdetection.com



This data sheet replaces previous ones.
The manufacturer can change without prior notice product specifications and details.
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