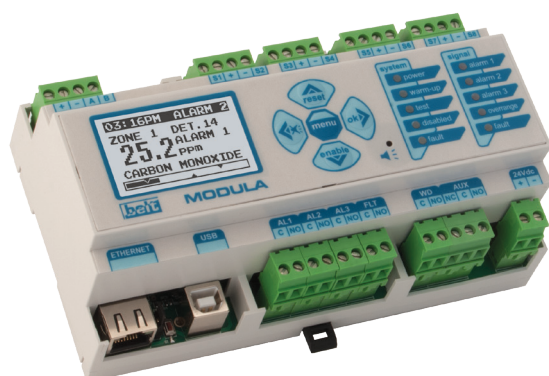


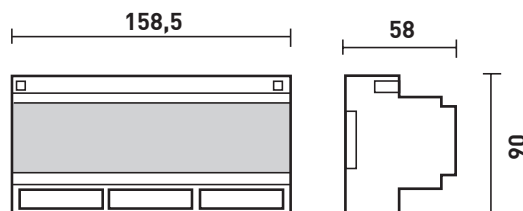
MODULA 4

up to 4 gas detectors

GAS DETECTION CONTROL UNIT



MODULA⁴



MODULA 4 is a specifically designed detection center in order to be used in all applications within the monitoring and control of areas to be protected from gas leaks flammable or from the presence of toxic gases.

The control unit is equipped with 4 analog inputs $4 \div 20$ mA on board which it is possible to connect standard gas detectors with proportional in output current. The control panel is also equipped with 1 zone relay output for each detector (4 total), 1 general alarm output, and 1 auxiliary output freely programmable.

The zone outputs can be associated with any of the thresholds alarm (Alarm 1, Alarm 2, Alarm 3, Full scale +), or at single detector failure. The alarm output can also be associated with any threshold of system alarm. The auxiliary output can be associated with several conditions.

The large backlit graphic display allows you to view in a way clear the gas concentration measured by the detectors and the thresholds of alarm of each detector. The control unit programming takes place with the use of 5 buttons navigation and an intuitive user menu.

Some LEDs are also available on the front for viewing immediate condition of the control panel and detectors. The control unit is made in a container for DIN rail mounting, a 9 modules.

The mains power supply takes place by means of an external power supply 230/24Vcc (not included).

Features

- ▲ Power supply: 24 Vdc with short circuit protection and overload
- ▲ Up to 4 detectors $4 \div 20$ Ma
- ▲ Rail DIN 9 modules installation
- ▲ Inputs protected against short circuit and overload
- ▲ 3 programmable alarm thresholds for each detector
- ▲ TWA alarm thresholds for calculating exposure levels TWA and STEL
- ▲ 4 zone relays, 1 alarm relay
- ▲ 1 fully programmable auxiliary relay
- ▲ Simple and intuitive configuration thanks to the graphic display
- ▲ Default programs for the most common applications
- ▲ 2 access levels password protected
- ▲ Non volatile event memory (999 events organized by type)
- ▲ Comply with the following Standards:
CEI 216-5/1, EN50545-1, EN45544-2, EN60079-29-1, EN50271, SIL1

AVAILABLE VERSIONS

Control unit

B30-MODULA4 Control unit up to 4 gas detectors

Alimentatori

B98-ALD2420BAT Alimentatore per barra DIN 230V/24V 2A con carica batterie
B98-ALD425MW Alimentatore per barra DIN 230V/24V 2,5A
B98-BAT12V6A Batteria 7Ah 12Vcc

Accessories and spares

B98-BCT12 DIN box 12 modules IP40

Compatible detectors

WPD/CAL $4 \div 20$ mA combustible gas detector IP55 plastic enclosure
IRON/CAL $4 \div 20$ mA combustible gas detector IP65 metallic enclosure
IRON/CA3S $4 \div 20$ mA CO gas detector IP65 metallic enclosure
IRON/CO2 $4 \div 20$ mA CO2 gas detector IP65 metallic enclosure
WPD/CAL $4 \div 20$ mA CO gas detector con modulo sostituibile CA3
ATX/CAL $4 \div 20$ mA combustible gas detector certified ATEX (EEx d)
ATX/ECL $4 \div 20$ mA toxic gas detector certified ATEX (EEx d)
WPDS/CA3S CO gas detector con modulo sostituibile CA3S
WPDS/CAX Combustible gas detector con modulo sostituibile CAX
WPDS/CO2 CO2 combustible gas detector con modulo sostituibile CO2



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MODULA 4

GAS DETECTION CONTROL UNIT

Technical specifications

POWER	
Power supply:	24 Vdc with short-circuit and overload protection
Current consumption:	46 mA stand-by (backlit low) 92 mA stand-by (backlit high) 160 mA max
ENVIRONMENTAL	
Working temperature:	-5 / + 40 °C
Relative humidity:	5 ÷ 95% non-condensing
Enclosure rating:	IP20
MECHANICAL	
Dimensions:	158,5 x 90 x 58 mm
Weight:	330 gr
Colour:	Light grey (RAL 7035)
Housing material:	PC/ABS UL94-V0 autoestinguente
Mounting:	DIN rail – EN50022 (9 modules)
Terminal blocks:	Plug-in terminal blocks
ALARM THRESHOLDS	3 alarm thresholds for each detector Time weighted alarm thresholds for the calculation of TWA and STEL exposure levels (EN50545-1 compliant)
MEASURING RANGES	Combustible gases: 0-100% L.E.L. Toxic gases: 0-9999 p.p.m. Oxygen: 0-25% O ₂ CO ₂ : 0-100% vol
IMPUTS	4 (4 ÷ 20 mA) with short-circuit and overload protection
RELAY OUTPUTS	
Alarm relay:	3 (alarm 1, 2, 3) SPST 3A@250Vca
Fault relay:	SPST 3A@250Vca
Watchdog relay:	SPST 3A@250Vca
Auxiliary relay:	SPDT 10A@250Vca (programmable)
Activation logic:	normally energized or de-energized
Activation mode:	reflex, with memory, temporized
AUDIBLE INDICATIONS	Local alarm/fault buzzer (silenceable)
LED INDICATORS	5 system status leds (power, warm-up, test, disabled, fault) 5 detectors status leds (alarm 1, alarm 2, alarm 3, over-range, fault)
INTERFACE	Graphic LCD 128x64 pixel 5 push buttons (for system configuration and use) Multilingual menu (Italian, English, Russian, Spanish, Portuguese)
ACCESS LEVELS	2 password protected access levels
CLOCK	RTC Clock with backup battery
EVENT LOG	999 events organised by event type
APPROVALS	CEI 216-5/1, EN50545-1, EN45544-2, EN60079-29-1, EN50271, SIL1



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This data sheet replaces previous ones.

The manufacturer can change without prior notice product specifications and details.

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