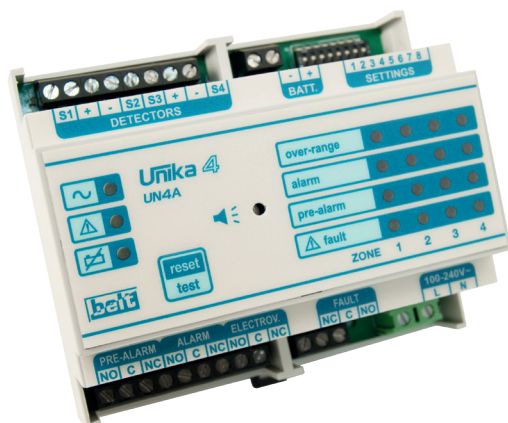
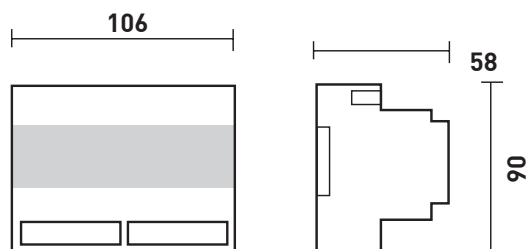


UNIKA 4

GAS DETECTION CONTROL UNIT



Unika 4



The UNIKA 4 power plant has been designed to meet the technical and functional needs of different applications in industrial, tertiary and thermal power plants, in cases where it is necessary to monitor any presence of combustible or toxic gases in the environment.

The control unit replaces the previous WP / DIN2, includes all the functions previously present to which it adds many new functions, such as pre-alarm and fault relays and complete functional configurability through dip-switches.

The UNIKA 4 control panel is compatible with all the threshold detectors in the BELT catalog (FLY, WPD12Mx, WPD12BR / Mx and WPDBR / CA3) and with any linear detector 4 ÷ 20mA with a maximum full scale of 50% LEL.

The presence of pre-alarm, alarm and fault relays, as well as a dedicated alarm relay to control a solenoid valve, allows great flexibility of use.

Features

- ▲ Small size (6 DIN modules)
- ▲ Low consumption switching power supply with integrated protection for overload and short circuit
- ▲ Compatible with FLY and WPD threshold gas detectors
- ▲ Display of "end of life of CK sensor module" (only for FLY)
- ▲ Compatible with 4 ÷ 20mA linear gas detectors
- ▲ Compatible with smoke detectors and emergency buttons
- ▲ Power supply and battery charger unit with reverse polarity protection and periodic battery test
- ▲ Pre-alarm, alarm, solenoid valve and fault relay outputs
- ▲ Relays configurable as status or memory
- ▲ Solenoid valve control relay configurable as: powered at rest or de-powered at rest
- ▲ Test / reset button

AVAILABLE VERSIONS

Control Unit

B20-UN2A	Control unit with 2 zones, with thresholds
B20-UN4A	Control unit with 4 zones, with thresholds

Accessories and options

B98-BAT12V6A	6.5 Ah 12 Vdc back-up battery
B98-BCT8	IP40 8-module DIN box
B98-BCT12	IP40 12-module DIN box
B90-SIRELAMP / 12	12 Vdc optical and acoustic alarms
B90-SIRELAMP / 24	24 Vdc optical and acoustic alarms
B90-SIRELAMP / 220	230 Vac optical and acoustic alarms

Compatible detectors

FLY	Combustible threshold gas detectors with replaceable sensor module CK
WPD12 / Mx	Combustible threshold gas detectors with replaceable MOS sensor module
WPD12BR / Mx	Combustible gas detectors with thresholds with replaceable MOS sensor module + buzzer and relay on board
WPDBR / CA3 C0	threshold detectors with replaceable CA3 sensor module + buzzer and relay on board
RF650	Fire emergency manual button
RF900	Fire detectors

Compatible with standard 4 ÷ 20 mA detectors



www.beltDetection.com
E-mail: info@beltDetection.com

GAS DETECTION CONTROL UNIT

POWER	
Power supply:	100+240 Vac 50/60 Hz
Power supply protection:	Hiccup protection with auto reset
Output power:	13,8 Vdc stabilized with short-circuit and overload protection
Stand-by consumption:	7 W at 230Vac
Max consumption:	10 W at 230Vca (without battery)
Battery Type:	12V 7,2Ah (optional)
Battery charge limitation:	300 mA
Protection/Test battery:	Reverse polarity protection - Periodic battery test
ENVIRONMENTAL	
Working temperature:	-10 / + 60°C
Relative humidity:	5 + 95% non-condensing
Enclosure rating:	IP20
MECHANICAL	
Dimensions:	106 x 90 x 58 mm
Weight:	230 gr
Colour:	Light grey (RAL 7035)
Housing material:	PC/ABS UL94-V0 self-extinguishing
Mounting:	DIN rail – EN50022 (6 modules)
INPUTS	
Input lines:	4
Pre-alarm threshold:	12mA (threshold detectors) 30% full scale * (linear detectors)
Alarm threshold:	20mA (threshold detectors) 60% full scale * (linear detectors)
Gas detectors for line:	1 (with thresholds or linear 4 ÷ 20 mA)
Fire detectors for line:	up to 10 (only on line 1)
Emergency buttons for line:	up to 10 (only on line 1)
Loop resistance:	3.300 ohm
RELAY OUTPUTS	
Pre-alarm relay:	250 Vac 5A (NO – C – NC) - configurable status / memory
Alarm relay:	250 Vac 5A (NO – C – NC) - configurable status / memory
Solenoid valve relay:	250 Vac 5A (NO – C – NC) - configurable status / memory, positive / negative security
Fault relay:	250 Vac 5A (NO – C – NC) - configurable status / memory
LED INDICATORS	
	Green: power ON Yellow: battery fault Yellow: unit control fault Yellow: fault line (1 for zone) Red: pre-alarm (1 for zone) Red: alarm (1 for zone) Red: overrange (1 for zone)
ALARM AUDIBLE	
	Buzzer >70 dB(A) at 1 m
INTERFACE	
	Push button test / reset
APPROVALS	
	EN 50270, EN 50271, EN 61779-1, EN 61779-4

* full scale max 50% L.E.L



BELT DETECTION S.r.l.
Strada del Fornacino, 108/b
10040 Leini (TO) - Italia

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.

Descriptions and illustrations are shown only in order to aid the customer.

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