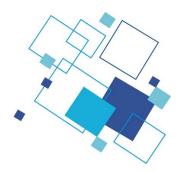
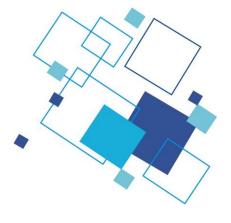


# **INTRINSICALLY SAFE CONVERTER**

IK1-x/x









Catalogue card





## INTRINSICALLY SAFE CONVERTER IK1-x/x

### **DESCRIPTION**

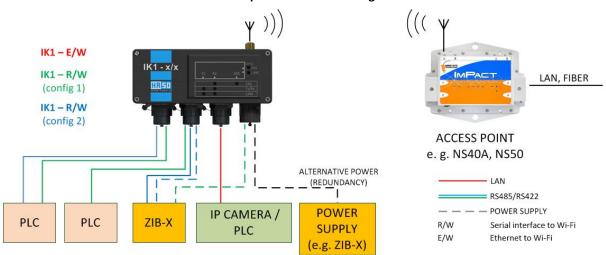
Intrinsically safe converter IK1 - x/x is a device used to convert digital signals in following standard: Serial RS232/422/485, Ethernet 100Base-TX, 100Base-FX optical, radio WiFi IEEE 802.11b/g, Modbus/RTU RS-xxx and Modbus/TCP . Converter is available in the following versions:

IK1-R/F Intrinsically safe converter RS-xxx standard into 100Base-FX optical standard
IK1-R/W Intrinsically safe converter RS-xxx standard into WiFi IEEE 802.11b/g standard
IK1-R/E Intrinsically safe converter RS-xxx standard into Ethernet 100base-TX standard
IK1-E/F Intrinsically safe converter Ethernet 100base-TX standard into 100base-FX optical standard
IK1-E/W Intrinsically safe converter Ethernet 100base-TX standard into WiFi IEEE 802.11b/g standard
IK1-RM/F Intrinsically safe converter of the Modbus/RTU RS-xxx standard to Modbus/TCP via 100base-TX optical standard
IK1-RM/E Intrinsically safe converter of the Modbus/RTU RS-xxx standard to Modbus/TCP via 100base-TX

Ethernet standard

The converter can be powered redundantly through power connector, hybrid connector (power supplied together with fiber optic) or channel 2 of serial connectors (dedicated connector for use with intrinsically safe power supply ZIB-x).

#### Sample of converter configuration:



## TECHNICAL SPECIFICATIONS

Intrinsically safe converter IK1-x/x	
power supply	Un = 12÷15V DC In ≤ 0,3A
Working temperature	from -10°C to + 40°C
Working humidity range	to 95% without condensation
External dimensions	$190 \times 75 \times 75 \text{ mm}$ (without hanger)
Weight	about 2 kg
Protection index cover	IP-54
Working position	any
Transmission speed:	
- serial RS232/422/485:	300 – 115200 bps
- LAN (Ethernet)	10 / 100 Mbps (10/100BASE-T/TX)
- LAN (optical)	100 Mbps (100BASE-FX)
- WiFi	1 – 54 Mbps

## **EXPLOSION-PROOF MARK**



Certificate: TEST 13 ATEX 0057X IECEx FTZU 15.0008

