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## COMBINED MODULE

Model B-PRO

### Product informations

**B-PRO**, the combination module designed to provide an interface between intrinsically safe circuits (for equipment located in a dangerous area) and other circuits located outside the dangerous area; this device implements the intrinsically safe separator function for the converter's communication circuits, the intrinsically safe separator function for the digital outputs, and also provides external power to the converter from the integrated intrinsically safe power supply. For connection to the intrinsically safe communication terminals of the converter/logger, the combination module contains a communication separator with an intrinsically safe RS485 interface (RS485 terminal block); the terminal block contains data terminals D+, D- and auxiliary terminals U+, GND. The auxiliary terminals U+ and GND carry the supply voltage of the internal IS power supply; this IS supply voltage is used to power the converter's communication circuits, which are galvanically isolated from the other converter circuits.

### The B-PRO combination module provides

- intrinsically safe separation barrier for RS485 communication line with possibility of conversion to RS232 line
- two intrinsically safe separation barriers for the converter's digital outputs
- external power supply for converters and data loggers

### Product features

- with its use, common data read/write devices via RS485 or RS232 communication (PC, PLC, external



## Combined Module

- modem, etc.) can be easily connected to the intrinsically safe converters/ loggers
- the combination module is housed in a plastic box and is designed for installation in a distribution board on a 35 mm DIN rail
- cable clamps for cables with a maximum cross-section of  $2.5 \text{ mm}^2$  are provided for cable connections
- the communication separator is a signal-transparent device, i.e. the communication signals passing through this separator do not change their properties (the communication protocol used and the communication speed used are preserved)
- the digital signals supplied by the converter can be binary or pulse. The electrical parameters of the digital signal remain unchanged after passing through the separator

## Technical Features

<b>DESIGNATION</b>	EX II (1)G [EX IA GA] IIB
<b>POWER SUPPLY VOLTAGE</b>	10.5 AT 15 V
<b>CURRENT CONSUMPTION</b>	17 MA AT 13 V
<b>MAXIMUM CURRENT CONSUMPTION</b>	100 MA AT 13 V
<b>MAXIMUM CABLE LENGTH</b>	30 M
<b>TOPERATING TEMPERATURE</b>	- 40°C ÷ + 70°C
<b>CLASSIFICATION OF THE ENVIRONMENT</b>	OUTSIDE POTENTIALLY EXPLOSIVE ATMOSPHERES
<b>INSTALLATION</b>	DIN RAIL
<b>B-PRO DIMENSIONS</b>	88 X 90 X 58 MM (AXBXC)
<b>B-PRO SQUARE DIMENSIONS</b>	214 X 209 X 237 X 101 MM (AXBXCXD)
<b>WEIGHT</b>	130 G



## Combined Module

SKU	MODEL	PRICE
00000050547	COMBINED MODULE B-PRO	ON REQUEST

