UNI EN ISO 9001:2008

Configuration interface for serial ports RS-232
PRODAT-04

FEATURES

- Adapt to configure the devices of SMART and SLIM series
- Galvanic isolation between the transmission and receiving sides
- Internal battery
- Connector for external supply input
- Connector for external supply output
- EMC compliant – CE mark
- Programming of the DATEXEL devices, on field too

GENERAL DESCRIPTION

The configuration interface PRODAT-04 allows to program, by dedicated software, all the DATEXEL devices of the SMART and SLIM series using both fixed workstations and laptops with communication serial ports RS-232 on board.
An internal battery is available for the eventual supply of the transmitter on programming; the battery's output voltage is provided on the connector J4; the same voltage is used to power the interface when the output voltage of the serial port is lower of the minimum voltage value necessary to the right working of the device (± 7Vdc).
The 1500 Vac galvanic isolation between the lines of input/power supply and output is obtained by means of opto-couplers on the data lines and a DC/DC converter on the power supply.
By the dedicated cable (CVPR-03) it is possible to configure the Intrinsically Safe devices.
With the PRODAT-04 are provided the standard cable CVP or the cable CVPR-03, the CD-ROM containing the drivers to install the programming software and two Jack connectors for the terminals J3 and J4.
The configuration interface PRODAT-04 is in compliance with the Directive 2004/108/EC on the Electromagnetic Compatibility.

USER INSTRUCTIONS
A) Use with Standard devices.
The device on programming must be always powered as shown on its technical data-sheet.
The interface PRODAT-04 must be connected to the serial port RS-232 by pin-to-pin cable to the connector J1 ; connect the ' CVP ' cable from the connector J2 to the PRGM connector of the device on programming.
It is also possible to power the device on programming using the internal battery (only for transmitters) connecting the connector J4 to power supply terminal of the transmitter.

B) Use with Intrinsically Safe devices.
The device on programming must be always connected in according to the Safety Specifications reported on the technical data-sheet of the device .
The configurable devices are the following:
- **DAT 1010 IS , DAT 1010 IS/HT;**
- **DAT 1015 IS , DAT 1015 IS/HT;**
- **DAT 1065 IS , DAT 1065 IS/HT;**
- **DAT 2015 IS , DAT 2015 IS/HT;**
- **DAT 4035 IS , DAT 4035 IS/HT.**

The connection diagrams A and B are shown on next page in the section "PRODAT-04: Connections".
To use the PRODAT-04 refer to the section "Installation Instructions".

TECHNICAL SPECIFICATIONS (Typical at 25 °C and in nominal conditions)

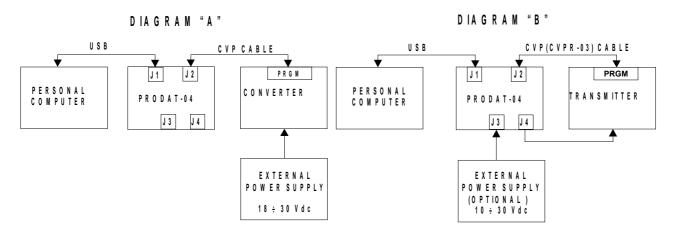|	
Type of battery (Optional)	6LF22 / 9 Vdc
External supply (Optional)	10 ÷ 30 Vdc (Transmitters)
	18 ÷ 30 Vdc (Converters)
Current consumption	< / =10 mA
RS-232 connection (pin-to-pin cable)	DB9 connector
CVP/CVPR-03 connection	4 ways RJ11 plug
External supply IN connection	2.1 mm JACK connector
External supply OUT connection	2.5 mm JACK connector
Galvanic isolation among the ways	1500 Vac, 50 Hz, 1 minute
Electromagnetic Compatibility	Emission: EN 61000-6-3
	Immunity: EN 61000-6-1
Operative temperature	0 ÷ 40 °C
Storage temperature (without battery)	-20 ÷ 60 °C
Relative Humidity (not condensing)	0 ÷ 90 %
Weight	about 250 g.
Optional accessories	- CVPR03 for the programming of SMART series DAT xxxx IS modules suitable for application in hazardous areas

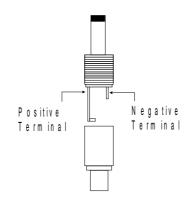## INSTALLATION INSTRUCTIONS

Follow the next steps to use the interface PRODAT-04.
- Connect the PRODAT-04 to the COM port of Personal Computer and to the device on programming.
- Insert the CD-ROM in the apposite driver .
- Control the COM port number where the device is connected.
- Power the device on programming.
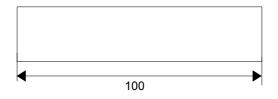- Install and run the desired configuration software.
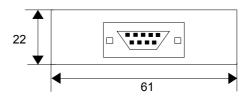
PRODAT-04: CONNECTIONS

DIAGRAM "A"

USB — CVP CABLE

| PERSONAL COMPUTER | PRODAT-04 (J1 J2 / J3 J4) | CONVERTER (PRGM) |

EXTERNAL POWER SUPPLY
18 ÷ 30 Vdc

DIAGRAM "B"

USB — CVP(CVPR-03)CABLE

| PERSONAL COMPUTER | PRODAT-04 (J1 J2 / J3 J4) | TRANSMITTER (PRGM) |

EXTERNAL POWER SUPPLY (OPTIONAL)
10 ÷ 30 Vdc

CONNECTORS J3 / J4 POLARITY

Positive Terminal   Negative Terminal

MECHANICAL DIMENSIONS (mm)

100

22

61

ISOLATIONS STRUCTURE

Ext Pow In (J3)   Ext Pow Out (J4)

Input side (RS-232)   Output side(PGRM)

CONNECTION TABLE

CONNECTOR	FUNCTION
J1	RS-232 Connector
J2	RJ11 4 ways plug for CVP cable connection
J3	Jack connector for external supply input.
J4	Jack connector for supply output.

HOW TO ORDER
To order the device PRODAT-04 indicate the following code.

ORDER CODE:

PRODAT-04