

Configuration interface for USB port PRODAT-05



FEATURES

- Suitable to configure the SMART and SLIM series devices
- Galvanic isolation between transmission and receipt
- Internal battery
- Programming of the device for DIN B in-head mounting without power supply
- EMC compliant – CE mark
- Configuration of DATEXEL devices, in field too

GENERAL DESCRIPTION

The program interface PRODAT-05 is suitable to program, by proper software, all the DATEXEL devices of SMART serie using any Personal Computer, both desktop and laptop type with USB serial port.

An internal battery is provided to supply the transmitters on programming on the plug J4; to connect these devices it is possible to use the proper pre-assembled cable supplied with the PRODAT-05.

Moreover, if the battery is exhausted or not available, an external power supply source (within the range 5 Vdc to 30 Vdc providing a current higher than 50 mA), could be connected to the plug J3 to power the interface.

By this interface it is also possible to program the devices for DIN B in-head mounting (not for the Intrinsically Safe devices) without the connection of the current loop.

The interface is 1500 Vac galvanic isolated between the input/power supply side and the output side.

By the PRODAT USB it is also possible to program the intrinsically safe transmitters using the CVPR-03 special cable.

The PRODAT USB is provided in a tool-kit which includes : the standard cable CVP or the cable CVPR-03 (indispensable to program the DATEXEL Intrinsically Safe transmitters), the CD-ROM containing the installation drivers and the programming software PROSOFT and its User Guide, a pre-assembled power cable and the JACK plug necessary to realise the cable for the connection on the plug J3.

The programming interface PRODAT-05 is in compliance with the Directive 2004/108/EC on the electromagnetic compatibility.

OPERATIVE INSTRUCTIONS

A) Configuration of standard DATEXEL devices.

The device on programming must be always powered-on as illustrated on its data-sheet.

Connect the PRODAT-05 to the USB port by the J1 connector ; then connect the ' CVP ' cable from the J2 connector to the PRGM connector of the device on programming.

It is also possible to supply the devices on programming use the internal battery (transmitters only) connecting the J4 connector to the supply terminals of the device on programming by the apposite pre-assembled cable (black wire + ; white wire -).

Configuration of standard DATEXEL devices for DIN B in-head mounting.

Connect the PRODAT-05 to the USB port by the J1 connector ; then connect the ' CVP ' cable from the J2 connector to the PRGM connector of the device on programming.

B) Configuration of intrinsically safe DATEXEL transmitters.

The device on programming must be connected and powered-on as illustrated in the Safety Instruction on its data-sheet.

The list of the configurable devices is 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.

To use the PRODAT-05 it is necessary to install the relative drivers; this operation is illustrated in the section "Installation Instructions".

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

Type of battery (Optional)

External supply (Optional)

PC connection

CVP/CVPR-03 cable connection

External power supply connection IN

External power supply connection OUT

Current consumption

Electromagnetic Compatibility (EMC)

Operating temperature

Storage temperature (without battery)

Isolation voltage

Relative humidity (non cond.)

Weight

6LF22 / 9 Vdc

10 ÷ 30 Vdc (Transmitters)

18 ÷ 30 Vdc (Converters)

USB connector

RJ11 4 ways plug

2.1 mm JACK connector

2.5 mm JACK connector

<= 5 mA

Immunity: EN 61000-6-1; Emission : EN 61000-6-3

0 ÷ 40 °C

- 20 ÷ 60 °C

1500 Vac, 50 Hz, 1 min.

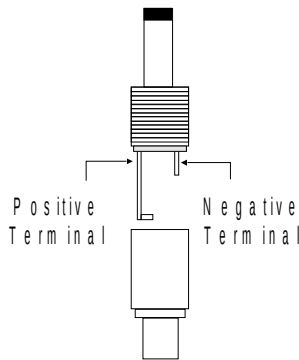
0 ÷ 90%

approx. 250 g

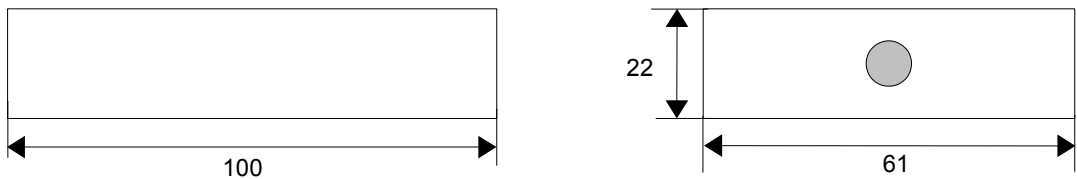
INSTALLATION INSTRUCTIONS

- To install the programming interface PRODAT-05 refer to the Installation User Guide relative to the Operative system (Windows) in use .
The general procedure of installation is the following.
- Connect the programming interface PRODAT-05 to the PC' s USB port.
 - Insert the CD-ROM of installation in the apposite driver.
 - Execute the installation.
 - Control the COM port number assigned to the device.
 - Install the desired configuration software.
 - Supply the device on programming.
 - Run the desired configuration software.

J3 CONNECTOR POLARITY



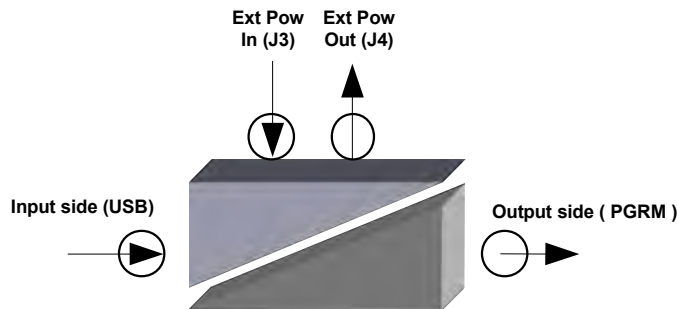
DIMENSIONS (mm)



CONNECTIONS TABLE

CONNECTOR	FUNCTION
J1	USB connector for the Personal Computer
J2	RJ11 4 ways connector for the CVP cable
J3	Input Jack connector for the external power supply
J4	Output Jack connector to supply the devices

ISOLATIONS STRUCTURE



HOW TO ORDER

To order the device PRODAT-05 use the following order code .

ORDER CODE:

PRODAT-05