

## Configuration interface for SMART Serie devices

### PRODAT-04



#### FEATURES

- Suitable to configure SMART Serie devices, in field too
- Galvanic Isolation between the input-power supply side and the output side.
- Optional power supply by internal battery or external source.

#### APPLICATION

- Configuration of DATEXEL devices, in field too.

#### GENERAL DESCRIPTION

The program interface PRODAT-04 is suitable to program, by proper software, all the DATEXEL devices of SMART serie using any Personal Computer, both desktop and laptop type.

By use of a 9 V battery, housed in the proper compartment which is automatically switched-on just it is necessary, the PRODAT-04 is designed to work also in case of the RS-232 serial port can not supply the minimum "not load" voltage value ( $\pm 7$  Vdc) necessary for its use.

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 .

The same voltage, coming either from the battery or the external source, is provided on the plug J4 and can be used to power the transmitters on programming; to connect these devices it is possible to use the proper pre-assembled cable supplied with the PRODAT-04.

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

By the PRODAT-04 it is also possible to program the intrinsically safe transmitters using the CVPR-03 special cable .

The PRODAT-04 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 programming software PROSOFT and its User Guide, a RS-232 cable, a pre-assembled power cable and the JACK plug necessary for the connection to the plug J3.

The PRODAT-04 can be connected to USB serial ports, by using the proper USB/RS232 adapters available on the market.

The programming interface PRODAT-04, developed, manufactured and tested in strict accordance with the quality assurance standard UNI EN ISO 9001: 2000, is in compliance with the directive 89/336/EEC on the electromagnetic compatibility and the CE mark confirms the compliance of the product.

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

Type of battery ( Optional )	6LF22 / 9 Vdc
External supply ( Optional )	5 ÷ 30 Vdc
Current consumption	< / = 10 mA
RS - 232 connection ( pin-to-pin cable )	DB9 terminal
CVP/CVPR-03 connection	4 ways RJ11 plug
External supply IN connection	2.1 mm Jack plug
External supply OUT connection	2.5 mm Jack plug
Galvanic isolation between the ways	1500 Vac, 50 Hz, 1 min.
Electromagnetic Compatibility	According to EN 50081-2 and EN50082-1
Operating temperature	0 ÷ +40 °C
Storage temperature	-20÷ +60 °C
Relative Umidity (non condensing)	0 ÷ 90 %
Dimensions (W x H x T) in mm.	100 x 61 x 22 mm
Weight	120 g. approx.

**OPERATING INSTRUCTIONS**

**A) Use of standard DATEXEL SMART devices.**

The device to be programmed must be powered as shown on its technical data-sheet.

The PRODAT-04 must be directly connected to the DB9 serial output port ( COM port) by the serial cable or to an USB port, using the proper adapter to the J1 connector; then it is necessary to connect the plug J2 to the PRGM input of the device by the CVP cable.

If the battery is exhausted or the voltage supplied by the COM port is not sufficient, it is still possible to power the PRODAT-04 by an external source applied on the plug J3.

This powering mode can be used also to supply the device on programming using the proper pre-assembled cable to connect the plug J4 to the device (black wire: +Vdc, white wire: GND).

To power SMART Conditioners, the voltage value must be within the 18 Vdc to 30 Vdc range, while the SMART transmitters can be powered by a value as low as 9 Vdc which can be supplied by the 9 V battery even.

Together with the PRODAT-04 is also supplied the JACK plug needed to make the connection to the plug J3.

**B) Use of Intrinsically Safe DATEXEL SMART Transmitters.**

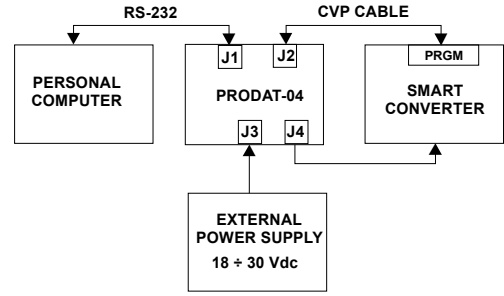
The device to be programmed must be connected in according to the Safety Specifications shown on its technical data-sheet.

List of the IS programmable devices:

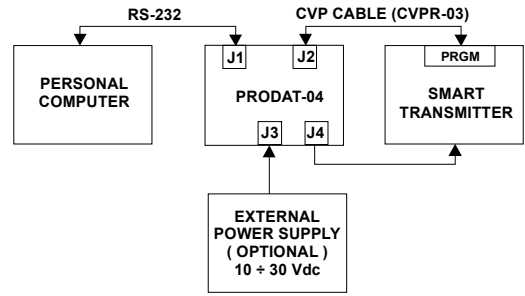
- DAT 1010 IS , DAT 1010 IS/HT;
- DAT 1015 IS , DAT 1015 IS/HT;
- DAT 1065 IS , DAT 1065 IS/HT;
- DAT 2015 IS , DAT 2015 IS/HT;
- DAT 4035 IS , DAT 4035 IS/HT.

The following diagrams A and B shown the connections to be made, depending on the device in use.

**DIAGRAM A**



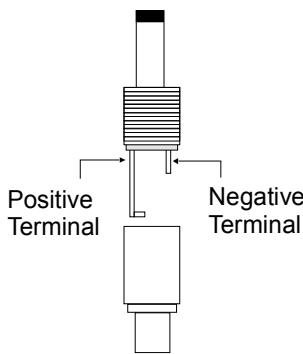
**DIAGRAM B**



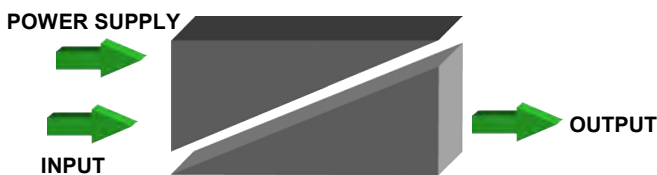
**CONNECTIONS TABLE**

CONNECTORS	FEATURES
J1	DB9 terminal for connection to the serial port
J2	4 ways RJ11 plug for CVP or CVPR-03 cables
J3	Jack plug for external supply input
J4	Jack plug for power supply output

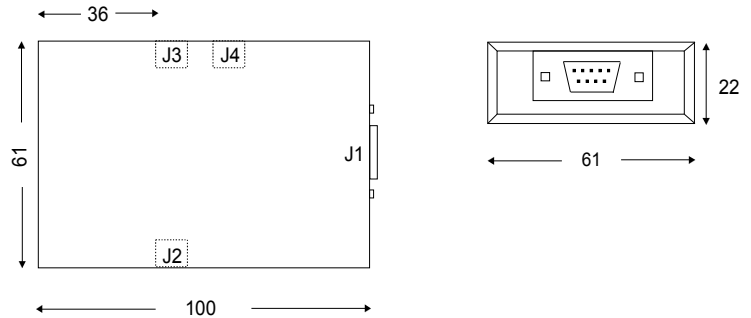
**' JACK PLUG '**



**ISOLATIONS**



**DIMENSIONS (mm.)**



**WIRING TABLE  
P.C. AND PRODAT - 04**

	P.C.		PRODAT - 04
P I N	D B 9		D B 9
R X	2	←	2
T X	3	→	3
G N D	5	—	5

**HOW TO ORDER**

The PRODAT-04 is supplied with the software PROSOFT.

**ORDER CODE: PRODAT-04**