Weight Transmitter **DAT 11 Profibus DP**

available with certification • UL

General information

PWS36120261127

Among the weight transmitters, DAT 11 Profibus DP is the fastest to receive, convert and transmit data thanks to a more performing A/D converter. Thanks to its small size and compact design, the DAT 11 Profibus DP weight transmitter can be inserted in any work environment without taking up too much space. DAT 11 Profibus DP is a customizable product that has a mechanical keyboard with a programmable key block from which it is possible to manually set the weight filter with predetermined values or with individually adjustable parameters. The DAT 11 Profibus DP weight transmitter features removable screw terminal blocks, selectable logic input function, voltage or current analog input, unipolar or bipolar analog output, RS485 junction box connection and peak hold function for dynamic measurements. DAT 11 Profibus DP is a product in step with the times. It complies with EN45501, and the Fieldbus data are updated to 125Hz. Compared to traditional weight transmitters, DAT 11 Profibus DP contains a USB port which allows the firmware update, the connection to the Optimation software and the connection to TESTER 1008, which facilitates calibration and troubleshooting. DAT 11 Profibus DP is able to perform various calibrations: "Dead Weight", "Theoretical" and "Data Sheet". In addition, it presents the linearization of the weight calibration on 5 points. Developed specifically by Pavone Weighing Systems and installed free of charge in the weighing instrument, the Optimation software allows you to simplify and perform various operations such as configuring the instrument and correctly and safely saving data through the DATALOGGER function.



Software Optimation 1.11.22: optimation_weighing_software.zip

Technical Manual: dat-11_technical_manual.pdf

Profibus GSD file (HMS): profibus_hms_gsd.zip

Fieldbus GSD file (HILX90): fieldbus_hil_x90_gsd.zip

All indicated data may be changed without notice.
All the measures indicated are expressed in millimeters (mm).

PAVONE SISTEMI S.R.L.
Via Tiberio Bianchi 11/13/15, 20863 Concorezzo (MB), Milan, Italy
T (+39) 039 9162656 **F** (+39) 039 9162675 **W** pavonesistemi.com
Industrial Electronic Weighing Systems since 1963

Technical specifications

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Measuring range:	-7.6 ÷ +7.6 mV/V
Input sensitivity:	0.02 µV/count
Full scale non-Linearity:	<0.01%
Gain drift:	0,001% FS/°C
Display:	6 digit, 7-segment LED red, height 8mm
A/D Converter:	24 bit
Internal Resolution:	> di 16.000.000 points
Visible resolution (in divisions):	999999
Divisions value (adjustable):	x1, x2, x5, x10, x20, x50
Decimal figures range:	0 ÷ 4
Temperature range:	-10 ÷ +50°C (max umidity 85% without condensation)
Storage temperature:	-20 ÷ +60°C
Filter:	0.1 ÷ 250 Hz
Excitation voltage:	4 Vdc (max 4 -350 Ohm- load cells)
Logic output:	2 optoisolated outputs; max 24 Vdc/100 mA each
Logic inputs:	2 optoisolated inputs 24 Vdc PNP (external power supply)
Serial port:	1 USB-C device + 1 RS232C with ASCII or Modbus RTU protocol + 1 Profibus DP
Analog output Non-Linearity:	<0.03%
Temperature drift analog output:	0,002% FS/°C
Power supply:	24 Vdc ±10% - power consumption 5 W
Microcontroller:	ARM Cortex M0 + 32 bit 256KB Flash reprogrammable onboard via USB
Data storage:	32 Kbytes expandable up to 1024 Kbytes (optional)
Regulatory compliance:	EN61000-6-2, EN61000-6-3, EN61326-1 for EMC, EN61010-1 for Electrical Safety
Fieldbus:	Profibus DP

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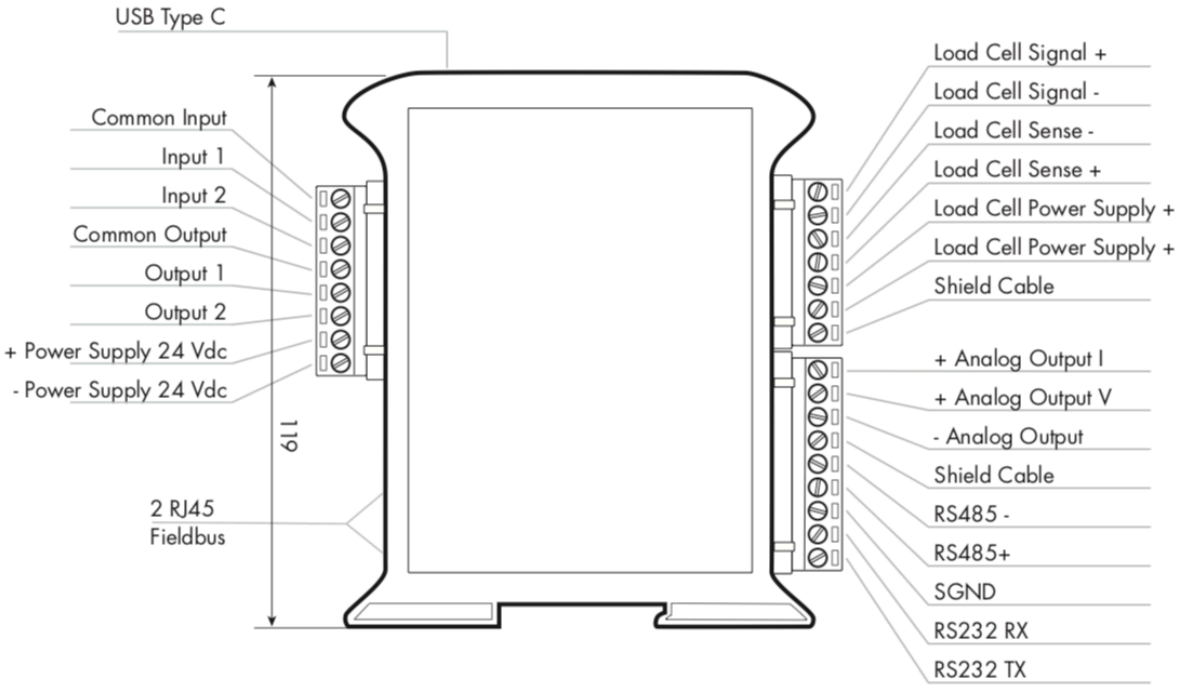

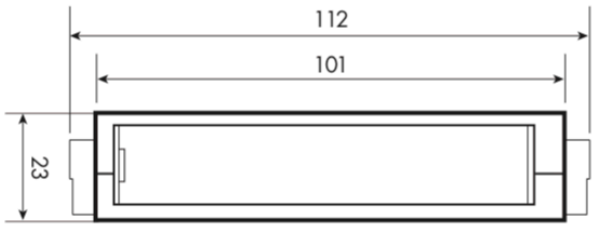

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