



PROCESS, TEMPERATURE & DIGITAL PANEL METERS FD3000

FD3000 panel meter displays a lot of kind of industrial data's. FD3100 accepts any voltage ($\pm 10V$) or current ($\pm 20mA$) process signal. FD3200 and FD3300 panel meters are used to display temperature sensors. FD3400 model accepts the most usual transducers or pulse generators to make the functions of a frequency meter, tachometer for rpm or rate meter with programmable display to measure velocity in engineering units. The data is displayed in engineering on 4 digits (20mm of high). In option, 2 alarm set points can be added with 2 relay output and LED indication in front display. All parameters are configurable in front display.

MODEL	DIMENSION	POWER SUPPLY	DISPLAY	INPUTS	FUNCTIONS	OPTIONS
FD3100	96x48x60mm	115/230Vac 12Vdc 24Vdc	LED 20mm red -1999 / 9999 250ms	Process $\pm 10Vcc$ $\pm 20mA cc$	Transmitter power supply 24 Vdc - 25mA	2 alarms (2RE) with 2 relay outputs and LED indication on front display.
FD3200				Pt100 2 or 3 wires	-	
FD3300				Thermocouples Type J, K & T	-	
FD3400				Frequency, Tachometer, Contact closure, Magnetic pickup, NAMUR sensor, Encoder, PNP, NPN.	Tachometer (speed or rpm), Total, Frequencymeter, Filter (0,1 to 9,9s), Low limit for pulse time.	



UNIVERSAL PANEL METERS FD6000

The universal panel meters FD6000 has a lot of configurable functions in addition of the measuring data display. FD6100 model accepts a lot of kind of process, temperature or load cells inputs. FD6200 model has display of five digits and two configurable inputs. It can be used with a lot of kinds of frequency, pulse or contact inputs. The 3 colour display can be configured according to alarm or external condition. The 3 digital inputs are configurable with one of the 15 available functions. FD6100 has 10 segments linearization module. FD6200 can be used as counter, totalizer, tachometre, fréquencymeter or chronometer.

MODEL	DIMENSION	POWER SUPPLY	DISPLAY	INPUTS	FUNCTIONS	OPTIONS
FD6100	96x48x60mm	85-265Vac 21-53Vac 10-70Vdc	LED 14mm 3 colours (red, green, amber) -1999 / 9999 5 to 250ms	Universal input $\pm 10Vdc$, $\pm 20mA$ $\pm 15, 30, 150mV$ Pot 200-100k Ω Pt100, thermocouples type J,K,T	Transmitter power supply 24 Vdc - 60mA, Configurable 3 colours displays, 10 segments linearization, TARE function, 3 digital inputs with 15 configurable functions, Complete or partial locking of configuration, PIC, HOLD, MAX and MIN functions.	2 (2RE) or 4 (4RE) alarms with relay outputs and LED indication on front display, 4 alarms with NPN (4OP) or PNP (4OPP) outputs and LED indication on front display,
FD6200				Frequency, Tachometer, Contact closure, Magnetic pickup, NAMUR sensor, Encoder, PNP, NPN.	5 digits counter and 8 digits total, Chronometer (5 digits/4 ranges), Fréquencymeter, Sensor power supply 8Vcc -30mA or 18Vdc- 100mA, 3 colours programmable display, 3 digital inputs with 13 configurable functions, Complete or partial locking of configuration, PIC, HOLD, MAX and MIN functions.	RS232 (RS2) or RS485 (RS4) MODBUS RTU communication, 4-20mA (NMA) or 0- 10Vdc (NMV) isolated analogue output for re- transmission.



MULTIFUNCTIONS PANEL METERS FD9000

the multifunction panel meters model FD9000 incorporate new technical and functional characteristics including more filtering options, software lockout, a variety of programmable remote inputs and many other performance capabilities that provides an extraordinary flexibility to adapt to a wide range of indication and control needs.

FD9100 accepts, a lot of kind of inputs: process (mV, V or mA), temperature with Pt100 bulb resistor or J, K, T, R, S, E thermocouple, weight, load, force, torque with bridge sensor up to ± 300 mV, displacement, linear potentiometer. The 4 digital inputs are configurable with one of the 29 available functions. In addition, this panel meter has also linearization (30 segments), filter, average (up to 200 readings), load cell, batch, counter, and totalizer functions. An automatic calculation and display tank volume based on pressure measurement is also available.

FD9200 is designed for counting and totalising applications or as tachometer with totalizer which accepts pulse signals generated by a wide range of sensors in the market. With a 6 digits display you can visualize up to 3 partial counters and a 8 digits display where it is visualized simultaneously one of the three totals. In the tachometer-totalizer case it is possible to measure the velocity in programmable units (Flow) and the accumulated total at the same time (Cost).

These two panel meters can be equipped up to 3 options as RS232C, RS485 or BCD 24Vcc communication, relay outputs, NPN/PNP digital outputs and 4-20mA or 0-10Vdc analogue output.

MODEL	DIMENSION	POWER SUPPLY	DISPLAY	INPUTS	FUNCTIONS	OPTIONS
FD9100	96x48x120mm	115-230Vac 24-48Vdc	Main display : LED 14mm red ± 99999	Universal input $\pm 10Vcc$, $\pm 20mA \pm 15, 30, 60, 300mV$ Pot 100 -100k Ω Pt100, thermocouples type J,K,T,R,S,E	Transmitter power supply 24 Vcc - 30mA, 30 segments linearization, Configurable filter (10 levels), TARE function, 4 digital inputs with 29 configurable functions, PIC, HOLD, MAX and MIN functions, Average function, Batch, Counter, totalizer, Automatic calculation and display tank volume based on pressure measurement.	2 (2RE) or 4 (4RE) alarms with relay outputs and LED indication on front display, 4 alarms with NPN (4OP) or PNP (4OPP) outputs and LED indication on front display, RS232 (RS2) or RS485 (RS4) MODBUS RTU communication,
FD9200			Secondary display : LED 10mm Green 99 999999 50ms to 1s	Frequency, Tachometer, Contact closure, Magnetic pickup, NAMUR sensor, Encoder, PNP, NPN..	Until 3 totalizer 8 digits, bidirectionals counters with fase squaring x1, x2, x4, Independent multiplying factor per each channel, Tachometer with spinning direction indication, Batch counter per each channel, 8/24Vdc -30mA sensor power supply, Arithmetic operations between channels, 4 digital inputs with 27 configurable functions, OFFSET, HOLD, LOAD and VISUAL functions, Programming lockout by software.	4-20mA (NMA) or 0- 10Vdc (NMV) isolated analogue output for re- transmission. BCD parallel output (BCD), 4-20mA (NMA) or 0- 10Vdc (NMV) isolated analogue output for re- transmission.

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