LEVEL | FLOW | PRESSURE | TEMPERATURE | ELECTRONICS

Мультиметр UNIVERSAL – VLC.810

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UNIVERSAL VLC.810.MC

Measurement and counting

GENERAL CHARACTERISTICS

The Universal counter VLC.810.MC combines, in a single unit, all functions of the signal processor VLC.602.M with an advanced section of counting, specially designed for the sensors with frequency output.
The instrument can perform counts and measurements of the flow rates at the same time.
The standard input signals of this universal processor are 0-5V, 0-10V, 0-20mA, 4-20mA, Potentiometric 500 to 20KΩ, pulses and frequency for batch counts.
And it is possible to represent on the display two simultaneous indications, both digital and analog (bar-graph) expressed in the most common engineering units.
The measured value can be transmitted to remote data acquisition systems and it is also possible the linearization of signals from sensors with a non-linear transfer function. All programming parameters can be set via the front keyboard and are stored in a nonvolatile memory to avoid the loss of data.

- LCD display with back light.
- Programmable measuring units and range.
- Frequency and pulses input.
- Input/output signals: (0)4 ÷ 20mA , 0 ÷ 5V, 0 ÷ 10V
- Up to 6 alarm thresholds with LED indication

GENERAL TECHNICAL DATA Tab.1

Description	Technical data		Code
Power supply	230 / 24 Vac (± 10%) / 50/60 Hz		**230/24VAC**
	24 Vdc	On request	**24VDC**
Power consumption	10 VA		-
Housing	Epoxi painted metal plate – shielded against electromagnetic fields		-
Temperature range	-20°C / +50°C		-
Degree of protection	IP40		-
Mounting	Front panel		-
Weight	650g		-

BATCH COUNTER MODE Tab.2

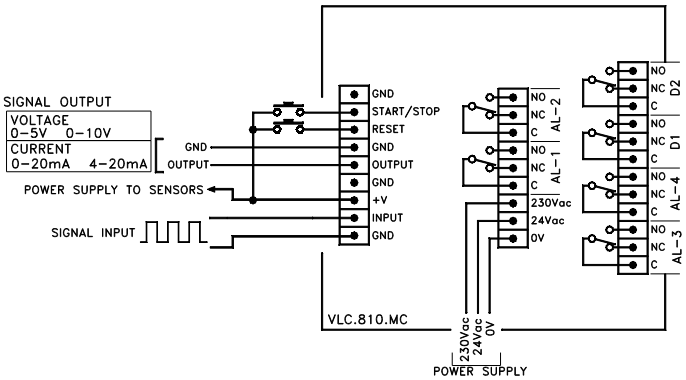
Description	Technical data										Code
Signal input	Frequency 0,1 – 30KHz		Pulses 0 – 2.000 Pulses / sec.								-
Signal output	0÷5V	0÷10V	0÷20mA	4÷20mA							-
Power supply to sensors	5 / 24 Vdc stabilized - 50mA										-
LCD display	Flow / Events	Flow / Batch	Events / Batch	Flow	Batch	Events					-
	Digital – Up to 2 engineering units										-
Measuring units	ml	cl	l	m^3	cc/min	l/min	l/h	m^3/h	n°	events	-
Maximum count	Batch counter	0 – 999.999									-
	Events counter	0 – 999.999									-
Divider	1 – 99.999										-
Counting mode	Programmable up or down										-
Standard digital output	2 x SPDT 230Vac 6A	1 for batch counter - 1 for events counter									-
Alarm relays	**2A** SPDT relay 230Vac 6A	Alarm threshold for flow rate measurements									**2A**
	4A SPDT relay 230Vac 6A	On request									**4A**
Functions indicator	Red LED										-
Alarm adjustment	Adjustable within entire measuring range										-
Alarm hysteresis	Independents and adjustable within entire measuring range										-
Reset	Auto or manual	Independents for batch and events counter									-
Reset delay (Auto mode)	0,1 – 99,9 sec.	Batch counter ≥ events counter									-
Counter commands	From front keyboard and / or from rear terminal board										-
External commands	Start–Stop–Reset	Monostable / bistable									-
Safety	Keyboard lock	Safe-stop function									-

UNIVERSAL PROCESSOR MODE Tab.3

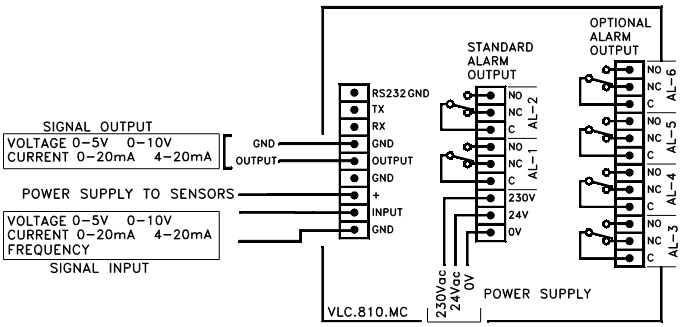
Description	Technical data										Code
Signal input	Potentiometric (500Ω ÷20KΩ), 0 ÷ 5V, 0 ÷10V, (0)4 ÷ 20mA, Frequency (0,1 ÷30KHz)										-
Signal output	0÷5V, 0÷10V, 0÷20mA, 4÷20mA										-
Power supply to sensors	5 / 24 Vdc stabilized - 50mA										-
LCD display	Digital - Analog (bar-graph) 0 ÷ 100%										-
Measuring units	l	cm^3	m^3	%	Pa	Kpa	mmH_2O	mbar	bar	-	-
	°C	°F	cc/min	l/min	l/h	m^3/h	m/sec	mm	cm	m	
Alarm relays	N. 2 SPDT relay 230Vac 6A										2A
	N. 4 SPDT relay 230Vac 6A								On request		4A
	N. 6 SPDT relay 230Vac 6A								On request		6A
Alarm indication	Red LED										-
Alarm adjustment	Adjustable within entire measuring range										-
Alarm hysteresis	Independents and adjustable within entire measuring range										-
Communication output	RS-232-C ANSI standard communication protocol								On request		RS-232

WIRING

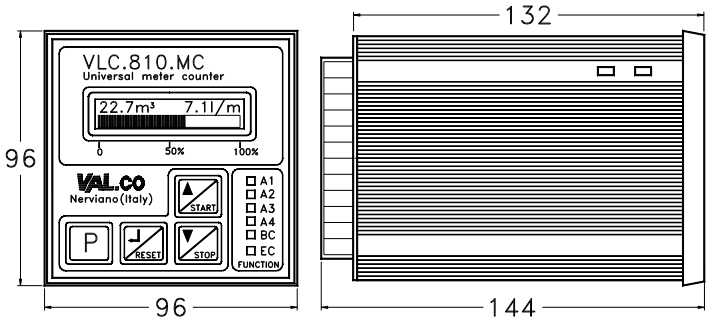
BATCH COUNTER MODE



UNIVERSAL PROCESSOR MODE



DIMENSIONS mm.



NOMENCLATURE

VLC.810. MC	2A	230/24CA	RS232		
•					Type
	•			Tab.1	Number of alarm relays, N.2 standard
		•		Tab.1	Main power supply
			•	Tab.1	RS232 communication output, on request

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