hidroconta
metering technology
WHEN WATER COUNTS

CHRONOS

CHRONOS digital totaliser from Hidroconta facilitates the reading of flow and volume in water meters. It has a configurable display in its input pulse value and the type of units shown.
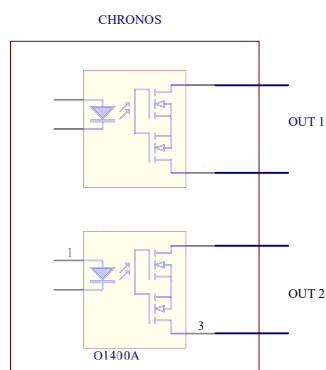
Applications

CHRONOS allows to connect the potential-free contact pulse emitter of a water meter and to display on an LCD screen the accumulated volume and average flow rate value.

The units of volume (m3, gallons) and flow rate (m3/hour, litres/second, gallons/minute) can be set, as well as the current accumulated volume value. In addition, the volume per pulse equivalence (10 l/pulse, 100 l/pulse, 1 m3/pulse, 10 m3/pulse) can also be set to suit various water meter types/calibres.

Technical specifications

GENERAL

Characteristics	Value
Degree of protection	IP65
Battery type	CR 1/2 AA 1200 mAh
Supply voltage	3V

FLOW

Characteristics	Value
Minimum pulse frequency	0.003 Hz
Maximum pulse frequency	1 Hz

Inputs and outputs

➡ **Direct" input (white-blue wire):** Each closed contact detection will add one pulse to the total displayed on the screen.

➡ **Inverse" input (white-red wire):** Contrary to the previous one, it subtracts one pulse from the total at each closed contact detection.

CHRONOS

OUT 1

OUT 2

O1400A

Chronos is equipped with two solid state relays that can withstand a maximum voltage of 60Vdc and a current of 100mA.
It allows two possible configurations:

⬅ **Input replica:** Generates a pulse on the corresponding relay when the direct input is activated and on the other when the reverse input is activated.

Duplicator mode: Both relays emit a pulse when the direct input is activated. In this way we convert the potential-free output of the water meter into 2, allowing the signal to be supplied to two different devices.

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Configuration

Button P1 allows you to select which value/data you wish to change.

Button P2 allows you to specify which value is to remain configured

PULSE EQUIVALENCE SETTING

SW2	SW1	Equivalence
O	O	100 litres / pulse
O	1	10 litres / pulse
1	O	1 m3 / pulse
1	1	10 m3 / pulse

Minimum flow rates supported

Configuration Litres/pulse	MINIMUM FLOW		
	m³/h	l/s	glpm
10	0,12	0,033	0,528
100	1,2	0,333	5,283
1000	12	3,333	52,834
10000	120	33,333	528,344

Display

Battery level

Volume

Flow rate

ERROR

m³ gl

m³/h l/s glpm

SW 1
SW 2
Button P1
Button P2

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