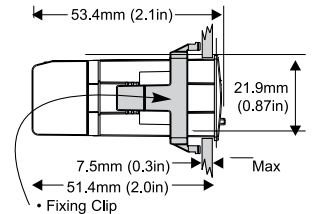
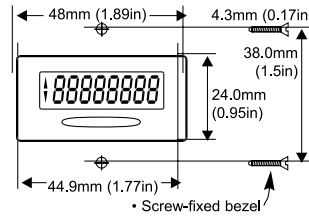


# 7111 | 7111HV

The 7111 series counter is feature packed with an unrivalled performance ratio, suitable for thousands of applications



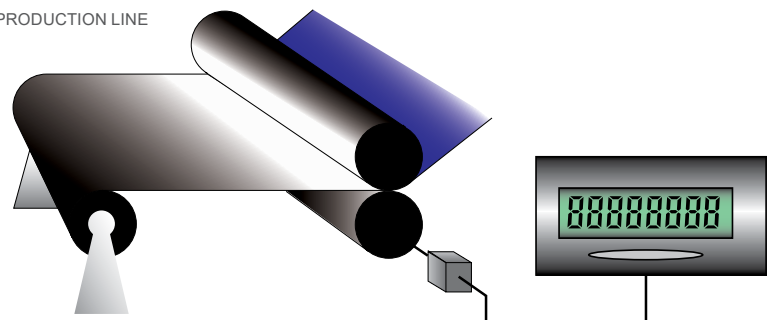
## Key Features

- Use of the latest CMOS circuitry achieves an expected battery life of 10 years.
- Connection using built in screw terminals (on all models).
- 9mm black high contrast LCD display.
- Backlight (externally powered) 5VDC.
- Counting up to 10kHz. (7111)
- 7111HV permits triggering from any voltage between 10-240VAC or 10VDC-110VDC  $\pm 10\%$ .
- Contact closure/open collector low speed count input with integral de-bounce circuitry (7111 model).
- Choice of mounting available, front panel with supplied bezel or rear mounting clip.
- Front panel can be sealed to IP65.
- Installation is simplified - all models have screw connections on rear for quick and simple connection.
- CE, UL and cUL approved.

## Applications

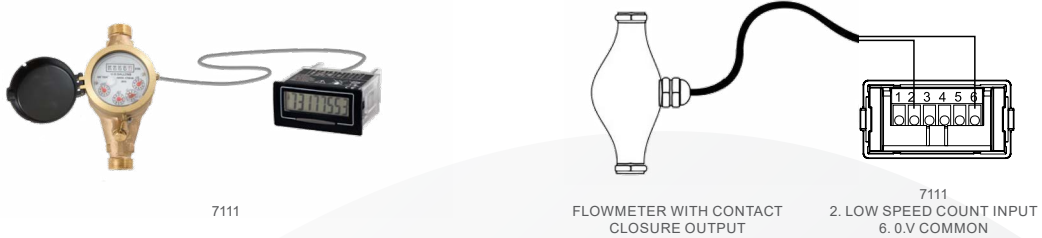
- Replacement for electro-mechanical counters
- Applications where external power is not readily available.
- Position, length, rotation and distance measuring applications.
- Event counting
- Water meters remote display

PRODUCTION LINE



## Water Meter Wiring

Our most popular remote display for water meters is the 7111 counter. It is easy to install with a two wire hookup.



## Common Specifications

<b>Battery</b>	Non-replaceable Lithium battery, expected life 10 years at 20°C
<b>Display</b>	8 digit black LCD, 9mm characters, leading zero blanking, backlight requires external 5VDC supply. Configurable decimal place up to 3 dec place (jumper link configured).
<b>Count Range</b>	99999999 - rollover to 0
<b>Connections</b>	Finger-proof screw connections for cables up to 1.5mm <sup>2</sup>
<b>Operating temperature</b>	-10°C to +60°C (14°F to 140°F)
<b>Storage temperature</b>	-20°C to +60°C (-4°F to 140°F)
<b>Altitude</b>	Up to 2000m
<b>Relative Humidity</b>	80% max up to 31°C, decreasing to 50% max at 40°C
<b>Sealing</b>	IP65/NEMA4X
<b>Mounting</b>	Either with clip mount supplied or two front screws with bezel supplied.
<b>Manual Reset Enable</b>	Configured by jumper link
<b>Packed Weight</b>	62 grammes
<b>Box Dimensions</b>	56mm x 44mm x 62mm

## Specifications 7111

<b>Direction Input</b>	Connection or electronic input TTL/CMOS compatible. Add=no connection or >2.4v (logic 1); Subtract=connect to COMMON or <0.7v (logic 0). Direction input must precede count input by 5µs (minimum) for valid operation.
<b>External Reset</b>	Contact closure/open collector, negative edge triggered, 0.7v threshold, 15mS minimum closure time.
<b>Low Speed Count Input</b>	Contact closure/open collector with integral de-bounce circuitry. 30Hz maximum, negative edge triggered, 0.7v threshold, 15mS minimum closure time. Max 18VDC.
<b>High Speed Count Input</b>	Electronic input 10kHz maximum, negative edge triggered, 0.7v threshold 50µs minimum pulse length, TTL/CMOS Compatible. Max 18VDC.

## Specifications 7111HV

<b>External Reset</b>	10-110VDC ±10%, 10-240VAC ±10%, 50mS minimum length.
<b>Direction Input</b>	Connection or electronic input TTL/CMOS compatible. Add=no connection or >2.4v (logic 1); Subtract=connect to COMMON or <0.7v (logic 0). Direction input must precede count input by 5µs (minimum) for valid operation. Max 18VDC.
<b>Count Input</b>	10-110VDC± 10%, 10-240VAC± 10%, 50mS minimum pulse width, 10Hz.

## Part Numbers:

- 7111** totalizing counter – switch/dry contact input
- 7111HV** totalizing counter – 10 – 240VAC/10-110VDC



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