

# FLOW HOURS COUNTER

Ideal for recording the time that the equipment is operational in the hire market, apportioning use of shared hydraulic tools between many users or accurately monitoring the service interval of attachments.

The run time meter is activated by the passage of hydraulic fluid and allows precise monitoring of system usage. Perfect for system and safety critical applications so that maintenance can be conducted on a work done basis rather than machine hours.

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## Features

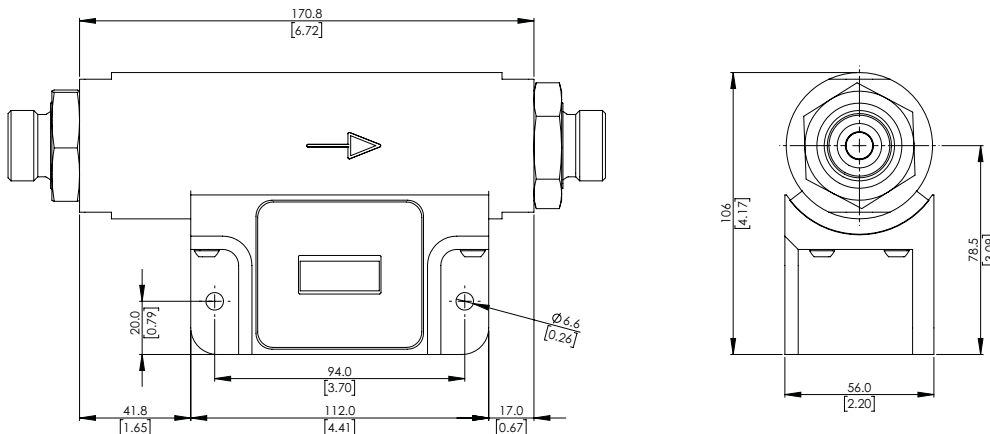
- Flow: 200 lpm, 52 USgpm
- Pressure: Up to 420 bar, 6000 psi
- Trigger point factory set at 10 lpm, 2.6 USgpm
- Anti-tamper design for security
- Battery life: 10+ years
- Time resolution 1/10th of an hour
- IP66 sealing of sensitive components
- Temperature range: -20 to +100 °C, -4 to 212 °F
- Display: always on LCD
- Bidirectional flow (count in forward flow only)



## Ordering Codes

MODEL NO.	PORTS	PRESSURE
RFS200-B050V-6	1/2" BSPP MALE	420 bar – 6000 psi
RFS200-B075V-6	3/4" BSPP MALE	420 bar – 6000 psi
RFS200-B100V-6	1" BSPP MALE	420 bar – 6000 psi
RFS200-S050V-6	3/4"-16UN JIC MALE	420 bar – 6000 psi
RFS200-S075V-6	1-1/16"UN JIC MALE	420 bar – 6000 psi
RFS200-S100V-6	1-5/16"UN JIC MALE	420 bar – 6000 psi

## Dimensions in mm (Inches)

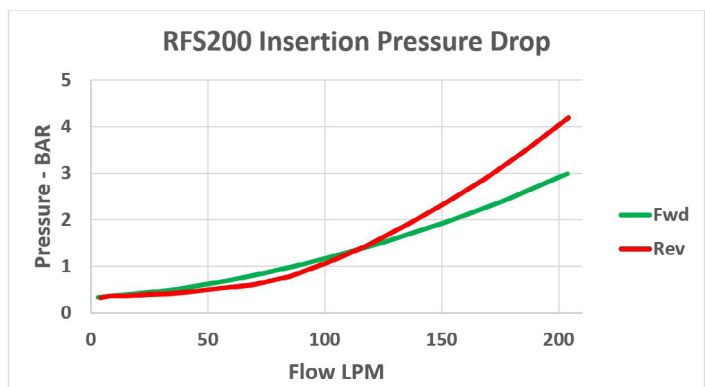


## Specification

Ambient Temperature: -20°C to 50°C (-4°F to 122°F)  
 Fluid Temperature: -20°C to 100°C (-4°F to 212°F)  
 IP rating: Designed for IP66 protection of electrical circuits  
 Fluid Type: Hydraulic mineral oil to ISO 11158 category HM.  
 Maximum Pressure: 420 bar (6000 psi)  
 Counter switch flow: 10 lpm (set at 21 cSt)\*  
 Switch Accuracy: ±4% of full scale  
  
 Display: Permanently on 7mm high LCD digits  
 Run indicator: Blinking decimal point  
 Resolution: 0.1hour (6minutes)  
 Timer Accuracy: ±0.2% over specified temperature range  
 Maximum count: 9999999.9 hours  
 Battery chemistry: Lithium Thionyl Chloride  
 Battery life: 10+ years

Flow body & housing: Aluminium 2011T6 (anodised)  
 Internal parts: Stainless steel and brass  
 Seals: FKM (on adapters)

\* The count trigger point is set using ISO32 oil at 50°C (21cSt).  
 Higher viscosities will decrease the switching flow and lower viscosities will increase the switching flow.



## Operation

Flow metering is a piston moving through a sharp-edged orifice. The piston moves against a spring and the position is sensed magnetically. The switch operating point is set during manufacture for reliability and integrity and is not user adjustable. When the switch point is reached the counter starts incrementing which is indicated by a blinking decimal point. The meter keeps counting so long as the flow rate is greater than the switch point. Counting is cumulative and cannot be reset.

## Reverse Flow

The unit will allow oil to pass in the reverse flow direction, but this will not trigger the counter.

## Installation

The unit should be installed horizontally. As the unit uses magnetic fields to operate it should be positioned clear of any external magnetic influence such as an electric motor. The device should be protected by a maximum 40micron filter in the hydraulic circuit. Oil cleanliness should be better than NAS 8 or ISO 19/17/14.

There are two M6 holes for bulk-head mounting but these should not be used to support pipe-work. Flexible hoses connected to the unit should be clamped to minimise flexing stress at the threaded ports.

All connections should be made by suitably trained personnel.