
INTRODUCTION

The GCR standpipe Flow meter logging system is designed to substitute the conventional standpipe to provide the means to measure pressure and flow direct from the hydrant. It displays pressure and flow readings plus total flows while connected to a fire hydrant. It also logs pressure and flow rate data that can be downloaded to a PC for future analysis and transferred in to third party software systems and fed into the company's database.

The equipment can be used for assessing flow and pressure readings of both hydrant outlets and wet risers, investigating ageing conditions and incidents of overloading of water distribution systems. It can also help assist in determining leaks.

KEY FEATURES

- Built in LCD display and data logger for pressure & Flow
- Non-volatile flash memory (data retained for 10 years if power fails)
- Logger Site ID can be configured via. LCD using push buttons without any PC software
- Push buttons can also be used to reset the total and scroll through different LCD screens: Pressure, Flow rate, Flow Totals etc.
- Local communications is via a fast non-contact IrDA comms. link (115,200 baud)
- Logged data can be downloaded to PC and generate water usage report.
- The electronics is potted, completely waterproof, submersible and battery powered with a typical battery life of more than 5 years.
- Software upgradeable in the field



APPLICATIONS

The standpipe system can be used for many water applications, including:

1. Assist in determining leaks
2. Fire Brigade
3. Fire protections services
4. Water Companies



Standpipe Flow Meter/Logger

Features

Memory: 1 M Bytes for storing totals plus logged pressure and flow data.

Memory Type: Flash non-volatile memory. Data is retained for 10 years if battery power fails.

Logging Rate: 1 Minute

Communications: IrDA – Baud Rate of 115,200 Baud

LCD Display: 8-Digit display with push buttons for scrolling & setup
Instantaneous pressure, flow rate, running total and absolute total
Accumulated totals register up to 12 digits.

Power: Lithium Battery (> 5 years)

Inputs: Quick release fitting for pressure connection.
Pressure range: 0 to 20 bar (0.1m resolution)
Pressure accuracy 0.25%
Flow range: 60-1800 L.P.M.
Flow Accuracy $\pm 1\%$ F.S.D.

Operating temperature: -5 to + 70 degree Celsius (23 to + 160 degree F)

LCD Display: +0 to + 50 degree Celsius

Physical

1. 2 ½" tube manufactured from aluminum alloy.
2. Paddlewheel assembly.
3. The base of the flow tube is fitted with a London Round Thread (LRT) base to provide connection to the hydrant.
4. Display housing 160x120x80mm aluminium