MyCity
Data logging outstation

The Data logger is a seven channel instrument, the ideal tool designed to log flow, level, pressure, temperature or any other parameter. It can be factory configured to have two pulse and five analogue or digital channels. The instrument can be connected to any water meter with a pulse output facility, pressure transducer with 4-20 mA output or an ultrasonic level sensor. The data logger comes in a portable or wall mount, battery or mains powered version. It is programmed with a Laptop computer or handheld programmer. The most notable feature of the portable battery powered version is the IP 68 rating, making it the ideal instrument for very harsh conditions like sewer manholes or water meter chambers.

Product features

✓ The cost effective alternative to expensive conventional radio telemetry outstations

✓ Connects to any analogue output device i.e. pressure, level or flow

✓ Connects to any pulse output device i.e. water, gas or electricity meter

✓ Remote communications using the GSM network – GPRS channel

✓ Monitors internal battery levels, main and auxiliary

✓ Very small and lightweight – 90 mm ϕ x 200 mm

✓ Long battery life from internal battery – 5+ years depending on configuration

✓ Serial communication with PC or modem

✓ SMS alarm messages to any cell phone

✓ E-mail alarm messages to supervisors and/or central e-mail client

✓ Remote programming of all setup parameters

✓ Manufactured in South Africa

Serial Communication

The instrument is fitted with a RS232 communications channel, used for directly linking the unit to a PC or Laptop computer. The serial communications channel is used to interrogate the status of the instrument, download information and control the instrument remotely. A software package is available to perform all of the above functions. Remote communication is possible making a direct call to/from the outstation or information is sent from the outstation directly to a server, using the GPRS channel. From the server the data can be distributed to the end-users. Dial-up communication is only possible where permanent power is available to power the outstation.

Data logging

The outstation has 512 Kbytes of built-in data logging memory. The sampling interval is programmable and can range from 1 minute to multiples thereof. The processor stores the sampling date and time, reads all the channel

inputs, does the necessary calculations for pseudo channels and stores the data. All the data is presented to the user in engineering units and all setups are stored on the outstation. A totalizer is maintained for flow logging applications, synchronised to the meter totalizer. Logging is based on a combination of events and time.

Applications

- ✓ Flow and pressure monitoring in zones or PRV points
- ✓ Sewer logging in zones or bulk delivery points and open channel flow measurement
- ✓ Reservoir monitoring and pump control
- ✓ Pump station monitoring and pump efficiency calculation
- ✓ Borehole level monitoring and pump control
- ✓ Rainfall monitoring

Power

The logger is primarily intended for short and long term usage running on its own internal battery (up to 5 years) or for longer term use where solar or mains power is available.

Technical Data

Model		Mcy-L-P68	Mcy-L-W65Ac	Mcy-L-W65Bat
Input channels	1-2	Digital or Pulse		
	3-7	General purpose analogue or digital		
Output channel		RS-232 serial communications		
Memory capacity		512 Kbytes		
Ambient temperature		-10 to 60 deg C		
Packaging		Portable	Wall mount	Wall mount
Power supply		Internal 3.6V battery	+12 VDC from mains	External 3.6V battery
Housing rating		IP 68	IP65	IP65
Dimensions		90 mm ϕ x 200 mm	50 mm ϕ x 150 mm	50 mm ϕ x 150 mm
Material		Nylon, PVC	PVC	PVC
Connectors		Bulgin IP68	PVC glands	
Weight		0,5 Kg		

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