Cello 6

GSM Meter Reader

TECHNOLOG

The Cello 6 GSM Meter Reader can be connected directly to two pulse outputs from meters, gas volume correctors, or similar. The meter index is calculated by totalising pulses that correspond to a known volume. The meter reading is transmitted to a host computer either daily, weekly or monthly.

The Cello 6 GSM Meter Reader incorporates a data logging function. Flow rate values are stored in memory at programmable intervals. The profile data can be locally downloaded via an optical IR port or transmitted to a host computer with the meter index. High and low flow rate and daily consumption alarms are supported. In addition to two pulse input channels two state inputs are also provided which may be used as tamper alarms. The pulse outputs from the meter can be replicated and made available via two isolated outputs.

The Cello 6 GSM Meter Reader is housed in an IP65 enclosure and is powered by a single replaceable cell. It can be located in a hazardous area, alongside a gas meter, or in a safe area. This feature reduces the overall cost of installation and maintenance. The Cello 6 GSM Meter Reader is fully compatible with Technolog's Utility Data Services.

DS5Q9000 Rev. A
DMR 3810

Technical Specifications

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Inputs

Input 1	Pulse Count (With replication - 2Hz nominal / 4Hz max. (short periods) or No replication - 16Hz max.)
Input 2	Pulse Count (With replication - 2Hz nominal / 4Hz max. (short periods) or No replication - 16Hz max.)
Input 3	Logic State Input (LO < 0.3V / HI > 0.7V)
Input 4	Logic State Input (LO < 0.3V / HI > 0.7V)

Outputs

Output 1 (RJ11)	Replication of input 1
Output 2 (RJ11)	Replication of input 2

Communications

GSM Modem Frequency	900 MHz, 1800 MHz. Integral antenna
GPRS (option)	Class 8
GSM SIM Card	Factory fitted / factory replaceable
Serial Port	Optical (IR) Port

Memory

Data Storage	Solid State, non-volatile, allocatable between channels

Supply

Type	Internally powered by a single, user replaceable lithium cell
Life	Typical battery life is 10 years depending on mode of use - configuration & data information retained during battery replacement.

Clock

Type	Crystal controlled calendar clock with leap year adjustment
Accuracy	100 seconds per month maximum error over operating temperature range
Synchronisation	Option to synchronise to GSM network (Subject to network)

Recording

Data Storage	Rotating store
Interval	Programmable from 1 minute to 1 hour in defined increments.

Alarms

Pulse Inputs	High / Low flow rate alarms independently programmable on each channel
State Inputs	High / Low input state alarm

Certification

Type	Complies with European Directive 94/9/EC ('ATEX 100a')
Certificate nos.	SIRA07ATEX2022X IECEx SIR 07.0013X
Marking	Ga Ex ia IIB T4 (Ta = -20°C to +60°C) & (Ga) [Ex ia] IIB

Environmental

Operating	Temperature range -20°C to +60°C
Protection	IP65

Dimensions	175mm x 155mm x 45mm

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