

Typical Applications

The Meter Logger 100 has a wide range of possible applications. The following are just a few examples of its versatility:

1. Connect the Meter Logger 100 to the pulse output of a utility meter and take control of electricity, gas or water usage.
2. For meters without a pulse output, an LED sensor which detects the flashing usage light on the meter can be supplied and connects directly into the Meter Logger. This effectively turns any electricity meter into a 'Smart Meter'.
3. Combine the Meter Logger with a low cost sub-meter and current clamps to produce a solution to remote monitoring of 3 phase electricity supplies.

Overview

The Meter Logger 100 is a 3 input pulse data logger with built-in ethernet connectivity, web browser interface and the ability to send data via email.

Connected to up to 3 utility meters with pulse output, the Meter Logger provides a simple-to-use yet powerful tool for remotely monitoring energy consumption.

Equipped with a battery backed clock that automatically updates the time from the internet, the Meter Logger ensures that energy consumption data is accurately recorded.

Features

- Works with any utility meter with a pulse output
- Logs 365 days of data in flash memory
- Energy consumption data recorded every half hour
- Ethernet interface for easy connectivity
- Web browser interface for simple configuration
- Battery backed real time clock with SNTP updates to ensure accuracy
- Static or DHCP assigned IP address
- Automatic regular emailing of energy usage data. Frequency and data file format can be customised
- Data downloadable in either CSV or XML format
- Free software utility automatically detects all Meter Loggers on a network and returns their IP addresses

[Live Meter Logger data - http://meter.crucible-technologies.co.uk/](http://meter.crucible-technologies.co.uk/)

Crucible Technologies
11 Glaisdale Road
Northminster Business Park
York YO26 6QT

T: 01904 792211
F: 01904 780054
E: info@crucible-technologies.co.uk
W: www.crucible-technologies.co.uk



Meter Logger 100

3 Input Ethernet Pulse Data Logger

Email Feature

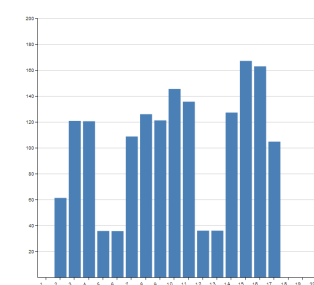
- Email sent to up to two user-configurable addresses
- Daily, weekly or monthly option
- User-defined time of send
- Energy data as CSV format attachment
- Easily imported into Excel (see below example) or third party energy management software e.g. Enmat
- Configurable names for location and meters provide unique identification

	A	B	C	D	E	F	G	H
1	Site ID	Meter Reference	Date	Units	00:30	01:00	01:30	02:00
2	T-P York	D00L91018	16/10/2013	KWH	1.983	1.975	2.001	1.99
3	T-P York	B00L87241	16/10/2013	KWH	1.875	1.85	1.95	1.93
4	T-P York	GM001B654	16/10/2013	KWH	1.92	1.865	1.99	2.02

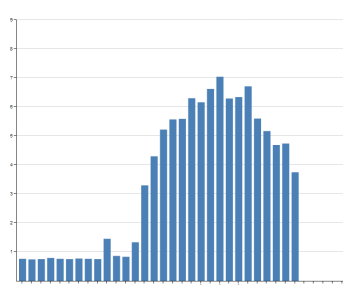
Web Browser Interface

- Easy configuration of all parameters
- Graphs of daily and monthly energy data
- All logged data available to download in either CSV or XML format
- Two levels of password protection prohibit unauthorised viewing of data or configuration changes

D00L91018 monthly profile of 10/2013



D00L91018 daily profile for 17/10/2013



Technical Specification

Pulse Inputs

3 separate pulse inputs that will accept voltage free contacts OR any switch providing less than 1k to ground

Minimum pulse width of 10 mS

Maximum pulse rate of 35 pulses per second

Each input has an associated LED that flashes with each received pulse

RealTime Clock

User set with SNTP updates

Backed for 2 years using rechargeable battery

Storage Capacity

Maximum of 65535 pulses per half hour
1 years worth of data in flash

Time Base

Half hour

Communication

Ethernet with static or DHCP assigned IP address

Power Supply

5V DC supplying at least 0.1 Amp

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