

Introducing the PRELUDE



Pre-smart 'push' display

The Prelude is a stylish in-home display that makes energy visible - helping users save money and reduce their impact on the environment. Users can see how much electricity they're using right now, how much it's costing them and how much carbon dioxide that equates to.

The Prelude is easy to install and use, with a clear analogue style speedometer that makes understanding energy consumption simple. Users can track the amount of electricity they're using right now, how much they've used over the last week and how they're doing against a set target.

Display views

Speedometer

This shows how much electricity is being used in the home right now. Simply turning on the kettle or lights will make the speedometer 'rev' up.

Fuel gauge

The fuel tank fills up each night with an allowance of electricity. Over the course of the day this gets used up, showing how users are doing against their target allowance

Milometer

This tracks how much electricity has been used and can be viewed as consumption figures from today, yesterday or the last seven days.

Sensors

The Prelude uses 868MHz communications with either a CT Clamp or a DIN rail unit (in development). It could be modified to use ZigBee in order to work with our IR/LED readers or a smart meter making it 'smart-ready'.

- Stylish, simple to use energy display
- Analogue style speedometer showing electricity you're using now
- Shows performance against a user defined 'fuel tank'
- Shows expenditure, CO₂ emissions and energy used
- 7 day energy use history
- Range of sensor options

Prelude Specifications

Display

Dimensions:	approx 127 x 70 x 25mm
History:	today, yesterday, 7-days
Consumption Profile:	automatically learnt for each day of the week
Power consumption:	< 1W
Power supply:	mains PSU, 230Vac nominal 50Hz for UK wall socket
DC socket:	barrel-type
Radio:	868MHz
Display:	reflective TN LCD, 50 x70mm active area

Transmitter

Dimensions:	approx 110 x 70 x 30mm
Ambient temperature:	-20°C to +50°C operating, 85% RH non-condensing
Battery life:	>1 year
Battery type:	3 AA-cells, Alkaline see separate Battery Life Report
Sensor-In socket:	barrel-type
Radio:	868MHz
Radio Transmission:	approx 0.1% duty cycle, max. power +3dbm
Measurement:	10-bit ADC, 22kW full-scale, non-linear compensation for power-factor
Accuracy:	±5% for resistive loads, sinusoidal waveform (PF=1.000)
Measurement interval:	2 seconds

CT Current Sensor

Type:	split-core ferrite current clamp
Max current:	75 Amp AC 50Hz, Cat III
Construction:	3000 turns, integral burden resistor
Connection:	1.5m cable, barrel connector

Approvals

- EN 60950
- EN 61010
- EN 300220
- EN 301489
- CE
- RoHS
- WEEE

Manufacturing life:	2 yrs, i.e. components shall not have an end-of-life within 2 yrs of manufacture start
Pack includes:	display, transmitter, stand, clamp sensor, batteries, PSU, instructions, packaging,
Warranty:	12 months

