

Product Data Sheet





Product Code: KWH4D	Issue No.	Issue Date	Issue by
	A	15/11/2017	T. Tombs

Description

Electronic Non-Tariff direct connected 4 pole 100A KWH meter.

General Characteristics

Standards.	IEC 62053-21.
Current rating.	Up to 100A maximum.
Voltage rating.	230 / 400V ac (1ph + N). 50Hz. 70 – 130% Ub
AC voltage withstand.	2 kV – 60 seconds.
Uimp (Impulse).	6kV. 1.2 / 50 μ s.
Operational current range.	0.05 Ib to Imax.
Over current withstand.	2400A for 0.5s.
Meter Case. Display. Mounting.	Plastic. D – L.C.D digital display. DIN rail.
Terminal access	Front via lift up transparent terminal guard.
Cable size.	35 mm ² .
Cross head screw – torque.	3 Nm
Meter LED indication.	Red – Impulse rate. L1 L2 L3 phase indication.
Meter power consumption.	≤ 2W / 10VA.
No of poles.	4 (3ph & N).
Cable entry facility.	Tunnel terminals. In bottom, out top (directional, cannot be used in the opposite direction).
Weight	0.6 kg
No. of outgoing ways	1 circuit only.
Equipment type.	Fixed stationary
Enclosure.	Meter. 
Meter dimensions.	125mmW x 88mmH x 73mmD. Display module 45mmH for DIN cutout. 
Proteus enclosure ref: ORDER SEPERATELY.	KWH4E – Mild steel. Colour: RAL7035. Dimensions: 235mmW x 383mmH x 125mmD.

Error Limits. 3 phase load.

Value of current.	Power Factor.	Error Limits
0.05 lb	1	+ - 1.5%
0.1 lb	0.5 inductive.	+ - 1.5%
0.1 lb	0.8 capacitive.	+ - 1.5%
0.1 lb – I max.	1	+ - 1.0%
0.2 lb – I max.	0.5 inductive.	+ - 1.0%
0.2 lb – I max.	0.8 capacitive.	+ - 1.0%

Error Limits. 1 phase load.

Value of current.	Power Factor.	Error Limits
0.1 lb – I max.	1	+ - 2.0%
0.2 lb – I max.	0.5 inductive.	+ - 2.0%

Additional information.

Usage

Intended for cabling by skilled persons or instructed persons. Meter can be read from the front by ordinary persons.

Electrical

Rated operational voltage: 230 / 400V a.c.

Rated insulation voltage: 530V a.c.

EMC environment: Environment type A.

Class 1.

160 imp / kWh.

Physical

Ambient operating temperature -5 to 40 °C (Not exceeding average of 35 °C in any 24 hour period).

Maximum altitude 2000m.

Operating humidity: ≤95%.

Installation

Service conditions: Wiring of this product must comply with current IEE regulations. Units are intended for indoor use and dry conditions and **NOT** where high levels of humidity and temperature are experienced.

Note: IP rating of enclosures can be compromised if correct use of glands is not followed when installing unit.