

Electrical Installation Requirements

Care should be taken to separate the power and signal cables to prevent electrical interference and possible damage due to inadvertent connection.

CE Conformance

This unit conforms with the relevant EU standards when installed according to the JTL Installation Requirements for this product.

Inputs

Inputs connector

14	Input meter 2	2-3	Pulse output 1
13	Input meter 1	4-5	Pulse output 2
12	Common meter		

Outputs (PR220 only)**Use of Maintenance Unit**

The monitor can be checked and the operation adjusted using a JTL portable maintenance unit which plugs into the monitor. Each item of information has an item number. The more important items are listed in the tables overleaf.

Examples:

To read item 21 press: **ITEM** **2** **1** **ENTER**

To set item 30 to 100.0 press:

ITEM **3** **0** **ENTER** **SET** **1** **0** **0** **0** **ENTER**

To correct errors press: **CANCEL**

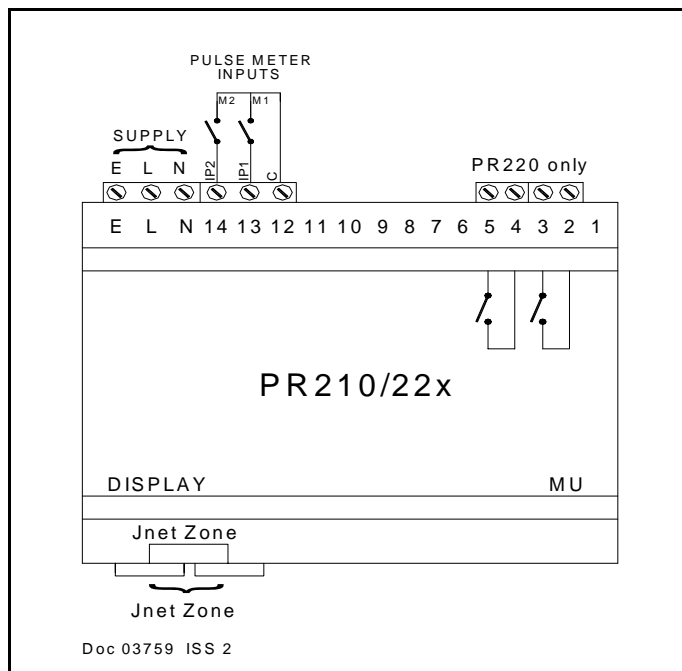
To select next or previous items press: **+** and **-**

JTL Network Communications

The JTL Jnet network is arranged for 2 wire (half duplex) communications. Jnet Network on this product use RJ8 connectors. JTL provide standard cables and junction boxes for the network connection.

Note all network products must be connected in parallel without cross connections. The Rx connections must be connected to the Tx connections at the network controller.

The communications rate is 4800 baud.

**Initial Commissioning**

The monitor has a set of data built in to its program for use during commissioning. This can be accessed setting item 9 to 1234. This loads into the monitor a standard set of data. Adjustments should then be made as necessary. The range over which the settings can be adjusted shown overleaf.

The unit numbers for the JTL communications network should be set on items 20 and 30.

Energy Meter Inputs

Up to 2 meters can be connected to the monitor. The meters provide a volt free pulsed output which is connected to an input on the monitor. The scaling of the pulse input can be adjusted from 0.01 to 25.0 kWh for each channel on item 28 and 38.

The meter and the PR210/PR22x should match and be set to the smallest adjustable setting. This is ideally 0.01 kWh.

Pulse outputs (PR220 only)

The pulse outputs repeat the energy meter inputs to allow connection to independent energy monitoring equipment.

ADJUSTABLE PARAMETERS				
Item Numbers				
Meter 1	Meter 2	Function	Range	Units
20	30	Unit numbers	0.1 to 899.8	kWh
28	38	Input pulse	0.01 - 25.00	

OTHER USEFUL ITEMS				
Item Numbers				
Meter 1	Meter 2	Function	Units	
21	31	Average power over the last 15 mins	kW	
22	32	Average power over the last hour	kW	
23	33	Average power over the last 25 hours	kW	
24	34	Total energy over the last 24 hours	kWh	
25	35	Current power (average over the last minute)	kW	
26	36	Total energy lower digits (xxxx999.9)	kWh	
27	37	Total energy higher digits (9999xxx.x)	MWh	

Full operating manuals and item number information can be obtained from your supplier or JTL Systems.

Supply and Input Requirements

230 V ac 48-62 Hz

Supply 6 VA maximum

Outputs 110V ac max 100ma max (PR220 only)

For 24V supply append -24V to part number.



This unit conforms with the relevant EU standards when fitted in accordance with its installation instructions.

Applicable Documentation

Item Numbers	Doc No. 03339
Firmware Variations	Doc No. 03338
Connection Diagram	Doc No. 03355
Connection Diagram	Doc No: 03760
Installation Requirements	Doc No. 03344 & 03371