

Electrical Installation Requirements

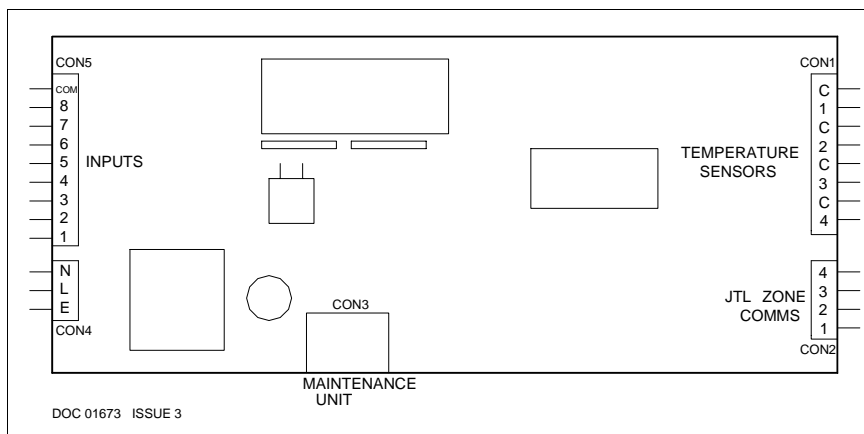
Care should be taken to separate the power and signal cables to prevent electrical interference and possible damage due to inadvertent connection.

The plant inputs are electrically isolated. A line voltage should be connected for signal present. The terminal marked **COM** should be connected to the supply voltage neutral.

NOTE: The line voltage MUST BE on the same phase as the unit supply.

CE Conformance

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



Inputs and Temperatures

Inputs (connector 5) Temperatures (connector 1)

1 Plant alarm 1	1 Not used
2 Plant alarm 2	2 Not used
3 Plant alarm 3	3 Not used
4 Plant alarm 4	4 Not used
5 Plant alarm 5	
6 Plant alarm 6	
7 Plant alarm 7	
8 Plant alarm 8	

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 -20.0 press:

ITEM **3** **0** **ENTER** **SET** **-** **2** **0** **0** **ENTER**

To correct errors press: **CANCEL**

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

JTL Network Communications

The JTL network port (connector 2) can be arranged for 2 wire (half duplex) or 4 wire (full duplex) communications. The wiring of the port is:

	2 wire	4 wire
1	-	Rx-
2	+	Rx+
3		Tx-
4		Tx+

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 choice of 2 or 4 wire is made using the item 7.

The communications rate is automatically selected for 4800 or 38400 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 1. 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 number for the JTL communications network should be set on item 1.

Plant Alarms

Each of the 8 plant alarm signals is monitored using an individual delay time which is programmable. Alarms are cleared after a fixed 30 second delay.

ADJUSTABLE PARAMETERS			
Item	Function	Range	Units
1	Unit number	0.1 to 899.9	hr:mn
7	JTL Network (half or duplex)	0=half (2 wire) 1=full (4 wire)	
30	Unit type (see drawing 01671)	81 to 96	
41-48	Alarm delays 1 - 8	00:01 to 02:00	
66	Invert plant alarm inputs	0=no 1=yes	

OTHER USEFUL ITEMS	
Item	Function
71 - 78	Plant inputs 1 - 8
81 - 88	Plant alarms 1 - 8

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

Supply and Input Requirements

PA210 230 V ac 48-62 Hz

PA210-24 24 V ac 48 - 62 Hz

Supply 6 VA maximum

Inputs 2 mA maximum



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

Applicable Documentation

Item Numbers	Doc No. 01718
Firmware Variations	Doc No. 01719
Connections Diagram	Doc No. 01671
Evaporator Manual	Doc No. 01923
Installation Information	Doc No. 01676
Dimensions	Doc No. 02181