

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

RLY1 A	A
RLY1 B	B
RLY2 A	C
RLY2 B	D
RLY3 A	E
RLY3 B	F
RLY4 A	G
RLY4 B	H
RLY5 A	I
RLY5 B	J
OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
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OP2+	C
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OP3-	F
OP4+	G
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OP6+	K
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OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
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OP4+	G
OP4-	H
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OP8+	O
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**Legend Function**

OP1+	A
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OP4+	G
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OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
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OP4+	G
OP4-	H
OP5+	I
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OP6+	K
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OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
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OP2-	D
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OP3-	F
OP4+	G
OP4-	H
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OP5-	J
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OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
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OP2+	C
OP2-	D
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OP3-	F
OP4+	G
OP4-	H
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OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
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OP4-	H
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OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
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OP3-	F
OP4+	G
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OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
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OP6-	L
OP7+	M
OP7-	N
OP8+	O
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OP1+	A
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OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
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OP5-	J
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OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

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OP1+	A
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OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
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OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
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OP5-	J
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OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
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OP6-	L
OP7+	M
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OP1+	A
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OP2+	C
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OP3+	E
OP3-	F
OP4+	G
OP4-	H
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OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
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OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
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**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
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**Legend Function**

OP1+	A
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OP2+	C
OP2-	D
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OP3-	F
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OP4-	H
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OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
OP8-	P

**Legend Function**

OP1+	A
OP1-	B
OP2+	C
OP2-	D
OP3+	E
OP3-	F
OP4+	G
OP4-	H
OP5+	I
OP5-	J
OP6+	K
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OP7+	M
OP7-	N
OP8+	O
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OP1+	A
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OP8+	O
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OP1+	A
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OP6+	K
OP6-	L
OP7+	M
OP7-	N
OP8+	O
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**Legend Function**

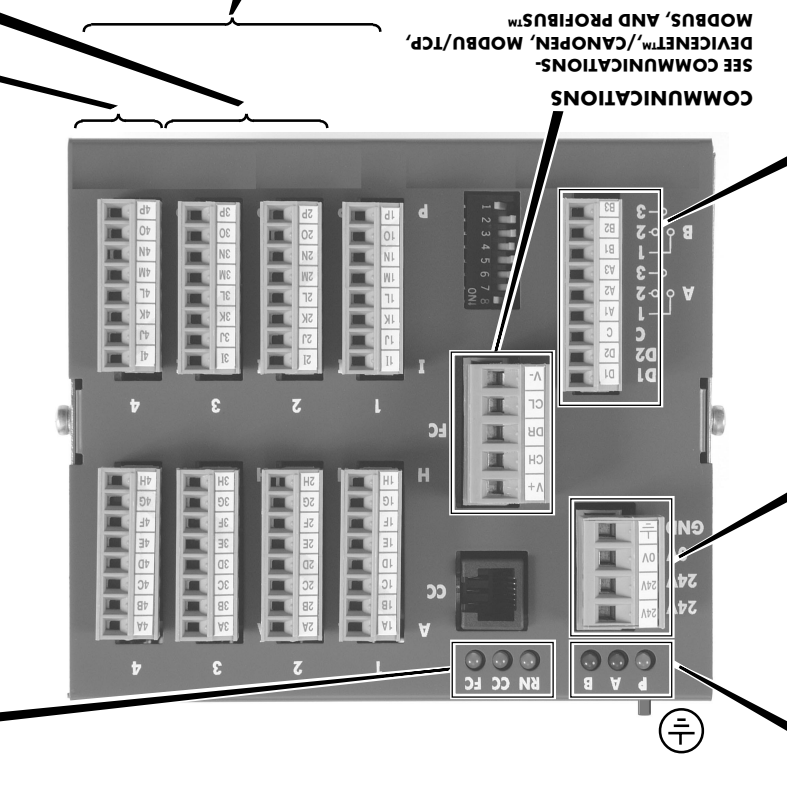
**CAUTION**

The Mini8 Controller is intended for operation at safe low voltage levels, except the Relay Module. Voltages in excess of 42V dc must NOT be applied to any terminals other than the Relay Module. RL8.

A protective Earth connection is required. ALWAYS ensure that the protective Earth is fitted first and disconnected last.

Do NOT replace the battery. Return the unit to the factory if replacement is required.

Legend Colour Function Action			
On - Running	Green	Indicate Run mode	RN
Blinking - Standby/Config	Green	Indicate Configuration activity	CC
Off - Not Running	Green	Indicate Configuration activity	CC
On - Running	Green	Indicate Field Comms activity	FC
Blinking - Config Traffic	Green	Indicate Field Comms activity	FC
Off - N/A	Green	Indicate Field Comms activity	FC
On - Connected	Green	Indicate Field Comms activity	FC
Blinking - Ready	Green	Indicate Field Comms activity	FC
Off - Offline	Green	Indicate Field Comms activity	FC
On - N/A	Green	Indicate Field Comms activity	FC
Off - N/A	Green	Indicate Field Comms activity	FC
Blinking - Field Comms Traffic	Green	Indicate Field Comms activity	FC
Off - N/A	Green	Indicate Field Comms activity	FC



Legend Function	
Digital Input 1	D1
Digital Input 2	D2
Digital Input Common	D3
Relay A n/open	A1
Relay A n/closed	A2
Relay A Common	A3
Relay B n/open	B1
Relay B n/closed	B2
Relay B Common	B3

Note. Digital Inputs: ON requires greater than 10.8V with 2mA drive, 30V max. Relay Contacts: 1 Amp max, 42V dc max.

Legend Supply			
24V	0	24V dc	Linked
0V	0	0V	
GND	0	Ground	

This terminal can accept wire sizes 0.2 - 2.5mm (24 - 12 awg). Power supply voltage: 17.8Vdc min to 28.8Vdc max. Power consumption: 15W max.

Legend Colour Function Action			
On - Power On	Green	Indicates Power status	P
Off - Power Off	Red	Indicates Relay A state	A
On - Energised	Red	Indicates Relay A state	A
Off - De-Energised	Red	Indicates Relay B state	B
On - Energised	Red	Indicates Relay B state	B
Off - De-Energised	Red	Indicates Relay B state	B

### Installation Safety Requirements

Various symbols used on the instrument are described below:

Caution (refer to the accompanying documents) Functional (ground) earth Protective earth terminal

### INSTALLATION CATEGORY AND POLLUTION DEGREE

This unit has been designed to conform to BS EN61010 installation category II and pollution degree 2. These are defined as follows:

- Installation category II. The rated impulse voltage for equipment on nominal 230V ac mains is 2500V.
- Pollution degree 2. Normally, only non-conductive pollution occurs. However, occasionally a temporary conductivity caused by condensation shall be expected.

### PERSONNEL

Installation MUST only be carried out by qualified personnel.

### ENCLOSURE OF LIVE PARTS

To prevent hands or metal tools touching parts that may be electrically live, the unit must be installed in an enclosure.

### WIRING

It is important to connect the unit in accordance with the data on this sheet, ensuring the protective Earth connection is ALWAYS fitted first and disconnected last. Wiring MUST comply with all local wiring regulations, i.e. UK, the latest IEE wiring regulations (BS7671), and USA, NEC Class 1 wiring methods. Only use copper conductors for connections. Terminal tightening torque 0.4Nm max.

**Caution**

Do not connect AC supply to low voltage sensor input or other low level inputs and outputs.

### POWER ISOLATION

The installation must include a power isolating switch or circuit breaker. This should be in close proximity (1 meter) to the unit, in easy reach of the operator and marked as the disconnecting device for the unit.

### OVERCURRENT PROTECTION

It is recommended that the power supply to the system is fused appropriately to protect the cabling to the unit.

### CONDUCTIVE POLLUTION

Electrically conductive pollution, i.e. carbon dust, MUST be excluded from the enclosure in which the unit is installed. To secure a suitable atmosphere in conditions of conductive pollution, fit an air filter to the air intake of the enclosure. Where condensation is likely, include a thermostatically controlled heater in the enclosure.

### OVER-TEMPERATURE PROTECTION

When designing a control system it is essential to consider the consequences should any part of the system fail. In temperature control applications the primary danger is the heating will remain constantly on. This could spoil the product, but more seriously damage the process machinery being controlled, or even cause a fire.

If the heating remains constantly on the

- temperature sensor is detached from the process
- thermocouple wiring has short circuited
- unit fails with the heating output constantly on
- external valve or actuator is sticking in the heating condition
- unit setpoint is set to high

Where damage or injury can occur, it is recommended that a separate over-temperature protection unit, and independent temperature sensor, to isolate the heating circuit, is fitted.

Note. Alarm relays within the unit will not indicate all failure conditions.

### INSTALLATION REQUIREMENTS FOR EMC

To comply with European EMC directive certain installation precautions are necessary:

- General guidance. Refer to EMC Installation Guide, Part no. HA025464.
- Relay outputs. It may be necessary to fit a suitable filter to suppress conducted emissions. Filter requirements depend on the type of load. Typical applications may use Schaffner FN321 or FN612.
- Table top installation. If using a standard power socket, compliance to commercial and light industrial emissions standard is usually required. To comply with conducted emissions standard, a suitable mains filter must be installed, such as Schaffner FN321 or FN612.

### ROUTING OF WIRES

To minimise interference from electrical noise, low voltage DC connections and sensor input wiring must be routed away from high-current power cables. If this is not practical, use shielded cables, shield grounded at both ends, and keep cable lengths to a minimum.

### General

This unit is intended for Industrial Temperature and Process Control applications, within the requirements of the European Directives on Safety and EMC.

**Warning**

The Safety and EMC protection provided can be seriously impaired, if the instrument is not used in the manner specified. The installer MUST ensure the Safety and EMC of all installations.

### UNPACKING AND STORAGE

The packaging contains the unit, this sheet, and a CD. If on receipt, the packaging or unit are damaged, do NOT install, but contact the supplier. If being stored before use, protect from humidity and dust in an ambient temperature range of -30°C to +75°C.

**Caution: Electrostatic discharge**

Always observe all electrostatic precautions, before handling the unit.

### SERVICE AND REPAIR

The unit has no serviceable parts. Contact the supplier for repair.

### CLEANING

Use Isopropyl Alcohol to clean label. Labels will become illegible if water or water based products are used. A mild soap solution can be used to clean other exterior surfaces.

### Declaration of Conformity

Manufacturer's name:	Eurotherm Limited
Manufacturer's address:	Faraday Close, Worthing, West Sussex BN13 3PL, United Kingdom
Product type:	Process controller and programmer
Model(s):	Mini8 Status level A1 and above
Safety specification:	EN61010-1
EMC emissions specification:	EN61326 Class A
EMC immunity specification:	EN61326 Industrial locations

Eurotherm Limited hereby declares that the above products conform to the safety and EMC specifications listed. Eurotherm Limited further declares that the above products comply with the EMC Directive 89 / 336 / EEC amended by 93 / 68 / EEC, and also with the Low Voltage Directive 73 / 23 / EEC.

Signed: *William Davis* Dated: *5th August 2004*

Signed for and on behalf of Eurotherm Limited  
William Davis  
(Technical Director)

IA249986U660 Issue 1 July 04

### MANUFACTURING ADDRESS

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Fax: (+44 1903) 265982	Fax: (+1 703) 669 1300
E-mail: info@eurotherm.co.uk	E-mail: info@eurotherm.com
Web: www.eurotherm.co.uk	Web: www.eurotherm.com

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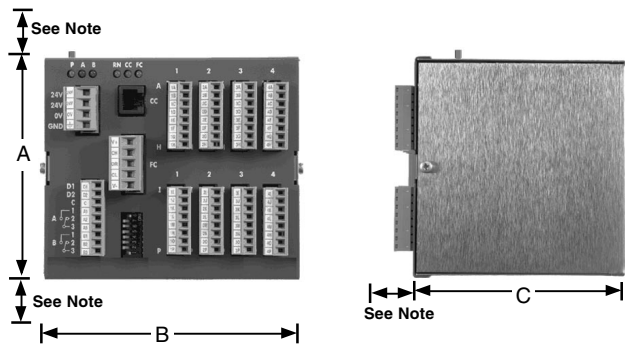
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## The Mini8 Controller

### TO MOUNT THE UNIT

This unit is intended to be mounted horizontally on a symmetrical DIN rail, 35 x 7.5 or 35 x 15, to the requirements of EN50022.

*Note. It must be mounted in an enclosure and is for interior use only.*



*Note. Always ensure a 25mm clearance for ventilation and connecting terminals.*

Dimension	mm
A	108 mm
B	124 mm
C	115 mm

### DIN RAIL MOUNTING

1. Mount the DIN rail horizontally, using suitable bolts.

*Note. It is NOT designed to be mounted in any other orientation.*

2. Ensure that the DIN rail makes good electrical contact with the metal base of the panel.
3. Guide the unit to the DIN rail, allowing the upper teeth of the DIN rail Mounting Bracket to rest behind the DIN rail itself.
4. Slowly and firmly, push the top of the unit back until the DIN rail Locking Mechanism springs back into place. This is confirmed by an audible 'Click'.  
The unit is now mounted to the DIN rail.

*Note. To remove the unit, simply use a screwdriver to carefully lever down the DIN rail Locking Mechanism and lift forward when the unit is released from the DIN rail.*

Environmental Requirements	Minimum	Maximum
Temperature	0°C	55°C
Humidity (Relative - RH)	5% RH	95% RH
Altitude		2000m

## Communications - DeviceNet™/CANopen

Protocol is DeviceNet™ CAN interface and CANopen V4.02 CAN interface respectively.

CAN uses the CAN open connector screw terminal, 5-way with 5.08mm pitch. The mating connector (female Open Connector) is supplied to facilitate screw-in user wiring.

Legend	Function
V+	V+
CH	CAN HIGH
DR	DRAIN
CL	CAN LOW
V-	V-

### TERMINATORS

#### DeviceNet™

The DeviceNet™ specification states that the bus terminators (121Ω) must not be included as any part of a master or slave.

#### CANopen

The CANopen Cabling and Connector Pin Assignment specification shows that the minimum termination resistance is 118Ω with the following guidelines.

Bus Length (m)	Termination Resistance (Ω)
0 to 40	124
40 to 100	150 to 300

*Note. Terminators are not supplied, but must be included in the cabling where required.*

### POWER

The CAN bus is powered by the system at approximately 100mA.

### THE ADDRESS SWITCH

This switch is situated at the bottom of the Comms Slot.

Each unit must have a unique address on the DeviceNet™/CANopen network. All units must be set to the same Baud rate.

The switch gives addresses from 0 to 63 for DeviceNet™, and from 0 to 31 for CANopen. If address 0 is set the unit will take the address from the configuration of the instrument.

SW	OFF	DeviceNet™	CANopen
8	Baud rate	Baud rate	Baud rate
7	Baud rate	Baud rate	Baud rate
6	-	Address 32	Reserved
5	-	Address 16	Address 16
4	-	Address 8	Address 8
3	-	Address 4	Address 4
2	-	Address 2	Address 2
1	-	Address 1	Address 1



### BAUD RATE

Switch	125k	250k	500k	1m (CANopen)
8	Off	Off	On	On
7	Off	On	Off	On

## Communications Interface

Various operational functions are indicated through the LED's across the top of the unit.

All controllers have a configuration port and a field communication port on the communications module.

### LEDS

*Note. If the Run mode (RN) red LED is permanently ON, the unit is operating normally.*

### Configuration Port

The RS232 configuration port is just below the LEDs on an RJ11 socket. The Mini8 Controller is configured via the iTools configuration software running on a PC communicating via the network.

*Note. The unit will NOT be controlling, while being configured.*

9 Pin DF to PC Com port	RJ11 Pin	Function
-	6	(N/C)
3 (TX)	5	RX
2 (RX)	4	TX
5 (0V)	3	0V (Gnd)
	2	(N/C)
	1	Reserved

Appropriate cable is available from the supplier, order code SubMin8/cable/config.

*Note. The unit can also be configured to communicate via Modbus™ and Modbus/TCP using the field network, dependant on the hardware fitted.*

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## Communications - Modbus

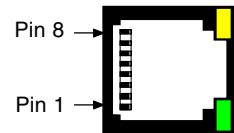
Protocol is Modbus RTU, RS422, RS485 3-wire or 5-wire.

The Modbus network connection is two RJ45 sockets connected in parallel. This allows category 5 patch cables to be used, the first socket into the unit and the second one out to daisy-chain on to the next slave, or for a line terminator.

The connectors includes 2 LEDs, a Yellow LED showing communication activity and a Green LED showing transmitted data.

RJ45 Pin	Colour	3-wire	5-wire
8	Brown	N/A	RXA
7	Brown/White	N/A	RXB
6	Green	N/A	Gnd
5	Blue/White	N/A	N/A
4	Blue	N/A	N/A
3	Green/White	Gnd	Gnd
2	Orange	A	TXA
1	Orange/White	B	TXB

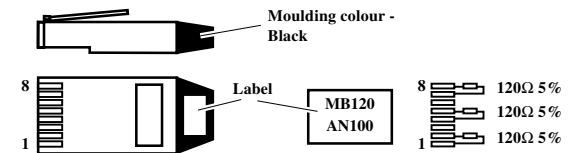
Plug shroud to Cable screen



### RJ45 COMMUNICATION TERMINATORS

The communication line must daisy-chain from unit to unit. The unit at each end of the chain must be correctly terminated. A Modbus terminator containing the correct termination resistors is available from the supplier, order code SubMin8/TERM/MODBUS/RJ45.

It is a D-type terminator; Pin 3-6 390R, pin 3-8 150R, pin 5-8 390R.



*Note. The Baud rate is default to 12900, but can be set during configuration using the iTools configuration software.*

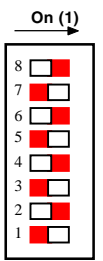
### THE ADDRESS SWITCH

This switch is situated at the bottom of the Comms module.

Each unit must have a unique address on the Modbus network. This switch gives addresses from 1 to 31.

*Note. If address 0 is set the unit will take the address and Parity settings from the configuration of the instrument.*

SW	OFF	ON
8	3-wire	5-wire
7	No Parity	Parity
6	Even	Odd
5	N/A	Address 16
4	N/A	Address 8
3	N/A	Address 4
2	N/A	Address 2
1	N/A	Address 1



## Communications - Profibus™

## Communications - Profibus™

Protocol is Profibus DP

Two Profibus communications board options are available.

- 3-wire RS485 connection via a 9 Pin D-type connector. Intended for installations using standard Profibus cables.

*Note. The provision for line terminators must be arranged in the Profibus cabling.*

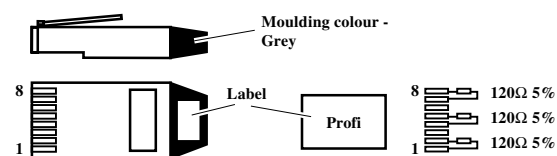
- 3-wire RS485 connection via 2 RJ45 sockets.

RJ45 Pin	9 PIN D-Type	Signal	Function
-	1	Shield	Shield (Gnd)
-	2	N/A	N/A
1	3	RxD/TxD-P	Receive/Transmit Data 'P'
-	4	N/A	N/A
3	5	DGnd	Data Ground
6	6	VP	Voltage Plus
7	7	N/A	N/A
2	8	RxD/TxD-P	Receive/Transmit Data 'N'
8	9	N/A	N/A

### RJ45 COMMUNICATION TERMINATORS

The communication line must daisy-chain from unit to unit. The device at each end of the chain must be correctly terminated. A Profibus terminator containing the correct termination resistors is available from the supplier, order code SubMin8/TERM/PROFIBUS/RJ45.

It is a D-type terminator; Pin 3-6 390R, pin 3-8 150R, pin 5-8 390R.



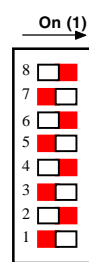
*Note. The Baud rate is set by the Profibus master via the network.*

### THE ADDRESS SWITCH

This switch is situated at the bottom of the Comms slot. Each unit must have a unique address on the Profibus network. The switch gives addresses from 1 to 127.

*Note. Switch 8 is not used, and Address 0 is invalid. If address 0 is set the unit will take the address from the configuration of the instrument.*

SW	OFF	ON
8	N/A	N/A
7	N/A	Address 64
6	N/A	Address 32
5	N/A	Address 16
4	N/A	Address 8
3	N/A	Address 4
2	N/A	Address 2
1	N/A	Address 1



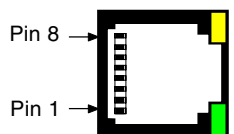
## Communications - Modbus/TCP

Protocol is Modbus/TCP, 10 Base T on an Ethernet network.

The connector includes 2 LEDs, a Yellow LED showing communication activity and a Green LED showing transmitted data.

RJ45 Pin	Colour	Signal
8	Brown	N/A
7	Brown/White	N/A
6	Green	Rx-
5	Blue/White	N/A
4	Blue	N/A
3	Green/White	Rx+
2	Orange	Tx-
1	Orange/White	Tx+

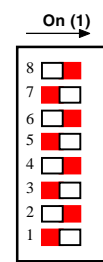
Plug shroud to Cable screen



### THE ADDRESS SWITCH

This switch is situated at the bottom of the Comms slot. Switches 1 to 7 are used to configure the instrument unit ident parameter. Switch 8 is used for DHCP (Dynamic Address) enabling.

SW	OFF	ON
8	DHCP disabled	DHCP enabled
7	N/A	Address 64
6	N/A	Address 32
5	N/A	Address 16
4	N/A	Address 8
3	N/A	Address 4
2	N/A	Address 2
1	N/A	Address 1



If address 0 is set the unit will take the address from the configuration of the instrument.

*Note. This value is only used when the unit identifier parameter is set to 'Instr'.*

### ALLOCATION OF IP ADDRESS

DHCP is where the instrument (IP host) will ask a DHCP server to provide it with an IP Address. Typically this happens at start-up, but can be repeated during operation. DHCP includes the concept of assigned values that will 'expire'.

A DHCP server is required that can respond to the request. The DHCP server will need to be configured to correctly respond to the request. This configuration depends on the local company network policy.