centre e.g. a circulating pump.	TECHNICAL FEATURES		
Terminals L2 and N2 are the $230V$ ~ powered	Power supply:		230V~ ±10% 50Hz
outputs for connecting the circulating pump.	Absorption:	-	Depends on the loads
Terminals NO and C are the output for the boiler			connected.
control. This is a voltage free contact (i.e.	Fuse (F1):		8A Time delayed
with different voltages	Boiler output:		Voltage free contact
Through terminals L1 N1 SWL NSB a 230V~	Therm./actuators outputs:		230V~
external timeswitch (optional) can be connected to	Time prog. output (optional):		230V~
the wiring centre. Terminals $\textbf{L1}$ and $\textbf{N1}$ are the	Contacts rating:		
powered outputs for the timeswitch power supply,	- Pump:		5A@250V~ SPDT
powering the actuators and thermostats section. For complete control of each of the available channels the user must connect a 230V~ actuator to terminals L1 and N1 and a 230V~ thermostat to terminals NSB SwL< SwL> TN TL. All outputs of the actuators and thermostate accurate area for a provided	- Boiler:		1A@250V~ SPDT
	- Actuators and thermostats:		8X1A@250V~
	Actuators and thermostats: 2,5A Total A each channel Indicators:		2.54 Total
			1A each channel
outputs i.e. they do provide the voltage for the	 Voltage presence: Boiler and pump activation: 		Green led
device connected to them.			Red led
Note: Each of the eight wiring channels has terminals for one thermostat and one actuator only. Up to five actuators can be connected to a channel by using a loose cap terminal, code U9360030,	Protection index:		IP 30
	Operating temp.:		0 40 °C.
	Storage temp.:		-10 50 °C
	Humidity limits"		20% 80% RH
available from Emmeti UK Ltd.	Case:	Material:	ABS UL-V0
			self-extinguishing
		Colour:	Signal white
	Dimensional		(RAL 9003)
	Dimensions:		245 X 100 X 60 mm
	Weight:		~ 520 gr.

WARRANTY

In view of the constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice. The consumer is guaranteed against any lack of conformity according to the European Directive 1999/44/EC as well as to the manufacturer's document about the warranty policy. The full text of warranty is available on request from the seller.



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Fig. 3: Cable entry instructions

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Notes:

1. Where a timeswitch is not used, connect a link between thermostat terminals TL and C.

- 2. The two output connections to the SwL and NSB terminals of the 4-way terminal block for the timeswitch are shown as alternatives depending on whether on-off or setback operation is required.
- 3. Where a 230V live supply is required to energise the boiler, connect terminal L2 to terminal C and use terminal **NO** to connect to the boiler switched live terminal.

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Fig. 5: Internal wiring diagram.

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OVERVIEW

This device is a connection box for up to 8 zone In order to install the device proceed as follows: floor heating systems with 230V~ power supply. This device controls up to 8 channels for actuators

one thermostat and its actuator. Two interlock outputs are available: one for a pump (230V~ powered terminals) and one for boiler interlock (voltage free contacts), plus the possibility

to wire an external timeswitch to control the thermostats and actuators according to a time program.

delayed fuse (F1) which protects against short circuits the wiring centre itself as well as the loads connected to it.

There are two LEDS on the device front panel. shown in Fig. 1:

- Green 'power' LED, marked with the symbol ' φ'. It is lit when the device is connected to a 230VAC supply.

- Red LED for ' pump output and boiler active ' marked with ' energised by its thermostat both pump and boiler contacts close (red led on the front cover turned on), meanwhile when no actuator is active the contacts are open.

OPERATION

When at least one thermostat connected to the wiring centre is calling for heat, the device immediately activates the boiler output, the relevant channel output and the pump output.

These outputs are all immediately turned off when no thermostat is calling for heat.

Note: actual actuator's opening and closing time depends on the specific type of actuator installed.

TIMESWITCH INPUT

The 4-way terminal block, item **()** Fig. 4, allows the installer to connect an external timeswitch (optional). This timeswitch will turn on and off the live supply (SWL) reaching the thermostats, thus turning them on and off according to the time program set by the user.

The NSB terminal allows, once connected to the relevant terminal of a suitable thermostat, the setting of the Night Set Back mode on the thermostat, thus setting it into the 'economy' setpoint, which can be fixed or variable, according to the manufacturer's choice.

terminals TL and C - see Fig. 5.

INSTALLATION

- Remove the 5 screws labelled as 1 in Fig. 1 then remove the front plastic cover.

and thermostats; each channel has terminals for - Fix the device base to the wall by using the two screw holes labelled **2** in Fig. 2.

> When working with electric tools in close proximity to the electronic parts, double check that the device is completely disconnected from 230V~ mains and take care to avoid damaging the circuits or components.

The wiring centre is equipped with an 8A time- - Make the electrical connections as shown in 'Electrical Connections' below.

Cable entry:

Cable entry through the slots in the bottom side (A):

Using pliers, carefully remove the plastic 'teeth' pointed by the arrow in **4** Fig. 3 then, after connecting the cable to the appropriate terminal. bend it as shown in Fig. 3.

Cable entry through the top slots in the left side 🚯 ·

Using pliers, carefully remove the plastic ' teeth ' shown arrowed (3). Fig. 3, then after connecting the cable to the appropriate terminal, bend it as shown in Fig. 3 and clamp using the clamps provided.

- Close the device cover, by locating it on the base then screw the 5 closing screws.

ELECTRICAL CONNECTIONS

Please ensure that the electrical wiring of the installation and connections to and from the wiring centre are in accordance with BS 7671. the latest edition of the IET Wiring Regulations. The thermostat must be wired to the mains electric supply through a switch capable of disconnecting all poles compliant to the current safety standards and with a contact separation of at least 3 mm in all poles.

Before commencing work on the installation. the electricity supply must be disconnected.

Please read the following carefully and also consult the wiring diagram, Fig. 5, which shows the connection of the power supply and external components to the wiring centre.

Where a timeswitch is not used or for night setback Terminals L and N are the inputs for the power thermostats, connect a link between thermostat supply: connect to 230V~, making sure that terminal **N** is wired to the Neutral. The electronic circuitry and loads are protected by the 8A time-delay fuse **F1** (**G** Fig. 4).

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The wiring centre provides an earthing terminal block (yellow) - see Fig. 4.

These are for ensuring earth continuity between the earth conductor in the mains supply cable and any earth conductor for devices connected to the wiring