

TECHNICAL OVERVIEW

The EM200 provides switched outputs which can be used as override inputs to a Building Management System (BMS), to bring on, or extend the 'on' time of heating and/or hot water systems controlled by the BMS.



FEATURES

- Heating and/or hot water extend selector
- 30 minutes to 6 hours selectable
- LED status indication for selector
- LED status indication for extension
- Extension can be initiated at any time
- Extension can be cancelled at any time
- Compatible with any BMS
- Surface mount enclosure with two 16mm M3.5 pan head screws

SPECIFICATION

Power Supply:	10V-24Vac/dc
Selector LED Indication:	ON with selection
Timer LED Indication:	ON with extension
Electrical:	4 core screened cable
Connections:	Push fastening, colour coded terminals
Earth Terminal:	Connect to the flying green lead from the EM200 front plate and to shield conductor of the incoming cable
Link Position 1 – '62':	For Ambiflex MF620 and <i>focus</i> products (power is taken off these devices)
Link Position 2 – 'LDC'	For Ambiflex MF820 controller (power is taken from the 24v supply for the LDCX input/output modules) and any other BMS (interface relays may be required to provide volt free contacts)
Enclosure:	Single gang 25mm deep electrical box with earth terminal
Country of Origin:	UK
Product Code:	EM200

At the BMS controller end only, the cable screen should be connected to the building earth. This is to avoid earth loops which can create noise. The current loadings on the screened cable are quite minimal and heavy gauge conductors are unnecessary; screening however is essential.

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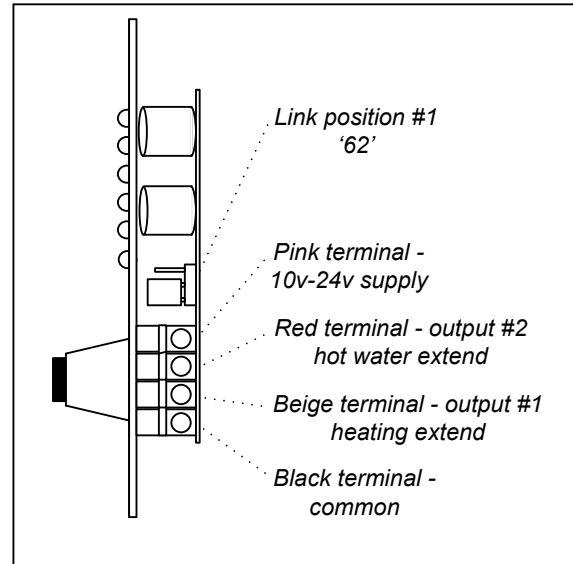
EM200 Remote Extension Timer Module

SPECIFICATION CONTINUED

The link position is very important on the EM200 and must be altered to suit the devices used on site. Link position #1 '62' (default position as delivered) must be used with Ambiflex's MF620 and *fOCUS* controllers where the power for the EM200 is supplied directly from these devices. Link position #2 'LDC' must be used with Ambiflex's MF820 system where the power may be taken from the 24v supply for the LDCX input/output modules or with any other manufacturers building management system (BMS). Interface relays may be used to provide volt free contacts.

INSTALLATION INSTRUCTIONS

- 1) Position the EM200 for ease of use.
- 2) Use four core screened cable.
- 3) Wire to the colour coded terminals as per the drawing. Avoid stressing the PCB by holding the PCB itself, rather than the front plate when inserting or removing cable connections.
- 4) Connect the earth terminal to the flying green lead from the EM200 front plate and to the shield conductor of incoming cable.
- 5) Check the link position for your application. Link position #1 '62' is for use with the Ambiflex MF620 and *fOCUS* controllers (default); link position #2 'LDC' is for use with the Ambiflex MF820 and other manufacturers BMS. If the link position needs to be altered, use small snipe nosed radio pliers or remove the front plate by unscrewing the two push button retaining nuts.
- 6) Connect to the BMS. At the BMS end only, the cable screen should be connected to the building earth.
- 7) Apply power and check correct operation of plant by selecting heating or hot water or both and setting the timer. The timer can be set to any value between 30 minutes and 6 hours in 30 minute intervals. Once set the column of timer LEDs show the override time remaining. The two 'select' LEDs show the override selection made and start to flash when the outputs are on. As it times out the timer LEDs will go off progressively and the output selection LEDs will continue to flash until completely timed out, then they will remain on. To cancel an override press and hold the 'timer set' button for a few seconds and the timer will reset to zero.



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