HORSTMANN

Q MK 3
REPLACEMENT GUIDE

Example circuit diagrams for some typical installations are shown on pages 2,3 and 4 of this guide. These diagrams are schematic and should be used as a guide only.

Please ensure that all installations comply with the current IEE regulations.

For reasons of clarity the diagrams have been simplified, for instance some Earth connections have been omitted.

Other control components shown in the diagrams i.e. Valves, RoomStats etc are general representations only. However the wiring detail can be applied to the corresponding models of most manufactures e.g. Horstmann, Honeywell, Danfoss Randall, ACL Drayton etc.

Cylinder and Room Thermostat Key:

C = Common
CALL = Call for heat or break on rise
SAT = Satisfied on rise
N = Neutral

Terminal convertion chart to be used when replacing the following obsolete programmers with their equivalent current 425 or ChannelPlus model

Section A   Potterton 'Metal Box' type
Section B   Potterton type 411
Section C   Horstmann 'Centaur' types 404/Q/4,401/K/1 and 404/K/1

When replacing any of these units with their equivalent current 425 or ChannelPlus model,note there are no spare terminals

Wires taken from the old unit and that are to be connected to the 425 or ChannelPlus terminals marked A or B should be joined together with a separate connector block(s).
i.e. 2 A's together or 2 B's together (NOT A to B or B to A)

INSTALLATION AND CONNECTION SHOULD ONLY BE CARRIED OUT BY A SUITABLY QUALIFIED PERSON AND IN ACCORDANCE WITH THE CURRENT EDITION OF THE IEE WIRING REGULATIONS.

WARNING   : ISOLATE MAINS SUPPLY BEFORE COMMENCING INSTALLATION

Section A

Potterton 'Metal Box' type (with 5 position selector) - Replace with either
425 Diadem,425 Tiara,ChannelPlus H27 or ChannelPlus H21

<u>Metal Box Programmer</u>   <u>425 or ChannelPlus</u>

Mains plug leads to

E	N	L
E	N	B
E	N	A

Pump plug leads to

Magnetic valve plug leads to

If a thermostat is fitted between 3 & 4 on
air temperature plug   fit between

4	and	B

If not fitted   link

4	and	B

If a thermostat is fitted between 5 & 6 on
air temperature plug   fit between

1	and	A

If not fitted   link

1	and	A

If a frost stat is fitted between 2 & 6 on
air temperature plug   fit between

L	and	A

If double pole frost stat is fitted between
2 & 6 & 4   fit between

L,	A,	& B

All neutral returns from thermostats where fitted should be made to terminal N

Please Note: In some instances,where a 3 position selector is fitted and the programmer
controls the Central Heating only or the Hot Water only a 425 Coronet,ChannelPlus H17 or H11
programmer may be used

Wire as follows:

Mains plug leads to

E	N	L

Pump and/or
Magnetic valve plug leads to

E	N	B

If a thermostat is fitted between 3 & 4
or 5 & 6 on air temperature plug   fit between

4	and	B

If not fitted   link

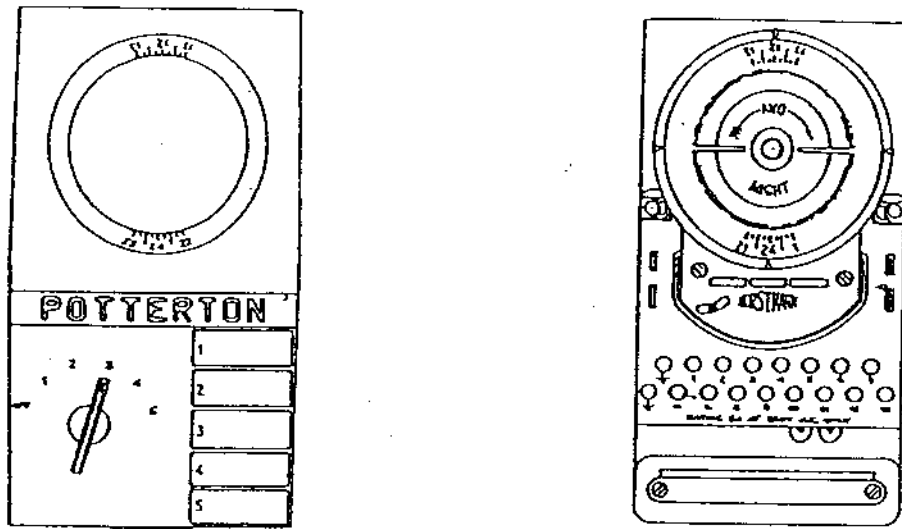| 4	and	B

If a frost stat is fitted between 2 & 6 on
air temperature plug   fit between

L	and	B

All neutral returns from thermostats where fitted should be made to terminal N

Section B

Potterton 411 type (with 6 position selector) - Replace with either
425 Diadem,425 Tiara,ChannelPlus H27 or ChannelPlus H21

411 terminals	E	E	N	L	1	2	3	4	5	6	7	8	9	10	11	12	13
425 or ChannelPlus terminals	E	E	N	L	N	L	1	B	1	4	A	N	L	1	B	A	4

If 6 and 11 are linked on 411,link 4 and B on 425 or ChannelPlus models

Please Note: In some instances,where a 4 position selector is fitted to the 411 programmer
and it controls the Central Heating only or the Hot Water only a 425 Coronet,ChannelPlus H17 or H11
programmer may be used

Wire as follows:

411 terminals	E	E	N	L	1	2	3	4	5	6	7	8	9	10	11	12	13
425 or ChannelPlus terminals	E	E	N	L	N	L	B	B	B	4	A	N	L	B	B	A	4

In this case the link between 5 and 10 on the 411 will have been removed and inserted between
terminals 3 and 4

Check that this is the case before proceeding to use 425 Coronet,ChannelPlus H17 or H11 models

Section C

Centaur type 404/Q/4 programmer - Replace with either
425 Diadem,425 Tiara,ChannelPlus H27 or ChannelPlus H21

411 terminals	E	E	N	L	1	2	3	4	5	6	7	8	9	10	11	12
425 or ChannelPlus terminals	E	E	N	L	N	B	A	4	A	1		N	L	B	A	A

Centaur type 401/K/1 timeswitch - Replace with either
425 Coronet,ChannelPlus H17 or ChannelPlus H11

401/K/1 terminals	N	L	E	N	N	L	1	2	3
425 or ChannelPlus terminals	N	L	E	N	N	5	4	A	A

Centaur type 404/K/1 timeswitch - Replace with either
425 Coronet,ChannelPlus H17 or ChannelPlus H11

404/K/1 terminals	E	E	N	L	1	2	3	4	5	6	7	8	9	10	11	12
425 or ChannelPlus terminals	E	E	N	L	N	A	B	4	B	B	5	L	5	A	B	B