

Cautions



ELECTRICAL HAZARD: Disconnect power from equipment prior to making any internal adjustments. Service should only be performed by qualified personnel.

FRAGILE: Inspect the equipment prior to installation. Do not install the equipment if damage is apparent. Do not attempt to disassemble this equipment. If damaged, return to the supplier.

ELECTROSTATIC HAZARD: This is sensitive electronic equipment. Apply safe ant-static practices when handling this equipment.

CIRCUIT LIMITATIONS: The maximum number of devices connected to a single alarm zone is limited by the control and indicating equipment, and may be limited by local regulations.

Introduction

660 manual call points connect to addressable fire detection control and indicating equipment.

These instructions provide trained installation personnel with details to install and commission 660 manual call points for optimum performance.

Preparation

Before commencing installation, ensure all equipment and tools to mount and connect the equipment are available, such as drills, mounting screws, cables and ladders.

NOTE: The unit comes separated from the back-box, ready for installation. However, if necessary, separate the front face from the body by inserting the reset key and gently pulling the lower portion of the front face down and away from the body. Removing the operating element will expose the screws that hold the body to the back-box (see Figs. 3 ~ 5).

Installation

Back-box

1. Feed the conductors through the rear of the back-box.
2. Securely mount the back-box to the wall surface using fixing screws and wall plugs. Fig. 1 shows the back-box mounting hole dimensions.

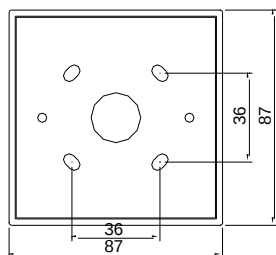


Fig. 1: Back-box dimensions

NOTE: Where the 460-009 weather proof enclosure accessory is used, the back-box is not used.

Wiring

The terminals accept (0.4 ~ 2.5) mm² conductors.

1. Strip the conductor insulation to expose 5 mm of the conductor.
2. Connect the conductors to the terminals as shown in Fig. 2.

WARNING: Take care to ensure the insulation does not get clamped by the terminal contact.

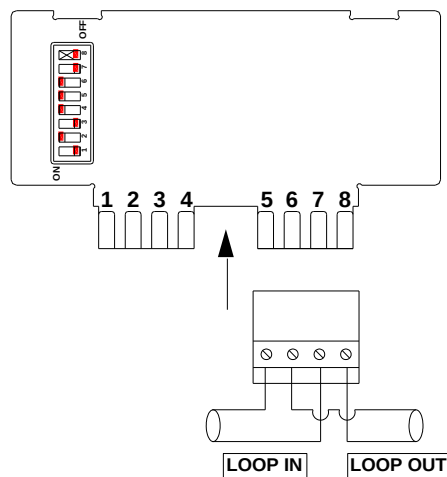


Fig. 2: 660 wiring connections

3. Check the wiring for continuity, short circuits and earth faults.

Address Setting

Select the manual call point address and set the address as shown in Table 1 by adjusting the DIP switch setting located on the rear of the body (see Fig. 3).

Note 1: For ST protocol, addresses 1~125 can be used.

For XP protocol, addresses 1~250 can be used.

Note 2: Cut off the power first, whenever the DIP switch need to be adjusted.

Assembly

1. Separate the front face from the body by inserting the reset key and gently pulling the lower portion of the front face down from the body (see Fig. 3).

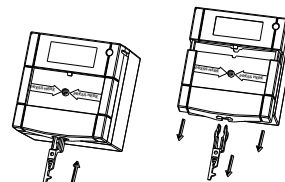


Fig. 3: Separate the front face from the body

2. Remove the operating element (see Fig. 4).

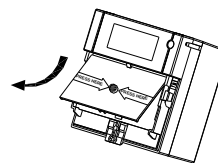


Fig. 4: Operating element

3. Screw the body to the back-box with the CS3 x 30 screws supplied (see Fig. 5).

NOTE: Where the 460-009 weather proof enclosure accessory is used, the body is screwed to the metal mounting bracket in the weather proof enclosure.

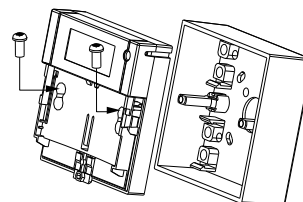


Fig. 5: Body and back-box fixing screws

- Replace the operating element (see Fig. 6)

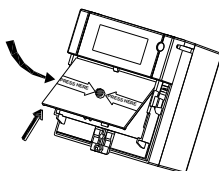


Fig. 6: Replacing the operating element

- Clip the front face onto the body (see Fig. 7).

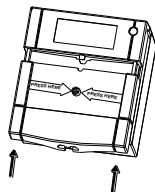


Fig. 7: Replacing the front face

- If necessary, set the displacement element to the normal position using the key supplied.

Commissioning

Manual Call Point

- Ensure all the alarm signal services, releasing devices and extinguisher systems are disabled during the commissioning period.
- Connect power to the manual call point.
- Operate the displacement element with finger pressure.

- Check that the red alarm LED indicator illuminates and an alarm condition occurs at the control and indicating equipment.
- Restore the manual call point to the normal position using the key supplied.
- Reset the control and indicating equipment.
- Check that the red alarm LED indicator is off.

Loop Isolator (where fitted)

- Apply a short circuit to the Loop Out wiring.
- Check that the yellow Isolator LED is on.
- Check that the status of devices connected to the Loop In side of the alarm zone wiring remains unchanged at the control and indicating equipment.
- Remove the short circuit.
- Check that the yellow Isolator LED is off.
- Check that devices connected to the Loop Out side of the alarm zone return to their previous conditions at the control and indicating equipment.

Final Conditions

Ensure all the alarm signal services, releasing devices and extinguisher systems disabled for the commissioning are returned to their previous condition.

References

Document	Description
31-0032	660 addressable manual call point datasheet

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Table 1 – DIP switch address settings



Addresses 1-125

ON ⇒ 1	2	1 2	3	1 3	2 3	1 2 3	4
01	02	03	04	05	06	07	08
ON ⇒ 1 4	2 4	1 2 4	3 4	1 3 4	2 3 4	1 2 3 4	5
09	10	11	12	13	14	15	16
ON ⇒ 1 5	2 5	1 2 5	3 5	1 3 5	2 3 5	1 2 3 5	4 5
17	18	19	20	21	22	23	24
ON ⇒ 1 4 5	2 4 5	1 2 4 5	3 4 5	1 3 4 5	2 3 4 5	1 2 3 4 5	6
25	26	27	28	29	30	31	32
ON ⇒ 1 6	2 6	1 2 6	3 6	1 3 6	2 3 6	1 2 3 6	4 6
33	34	35	36	37	38	39	40
ON ⇒ 1 4 6	2 4 6	1 2 4 6	3 4 6	1 3 4 6	2 3 4 6	1 2 3 4 6	5 6
41	42	43	44	45	46	47	48
ON ⇒ 1 5 6	2 5 6	1 2 5 6	3 5 6	1 3 5 6	2 3 5 6	1 2 3 5 6	4 5 6
49	50	51	52	53	54	55	56
ON ⇒ 1 4 5 6	2 4 5 6	1 2 4 5 6	3 4 5 6	1 3 4 5 6	2 3 4 5 6	1 2 3 4 5 6	7
57	58	59	60	61	62	63	64
ON ⇒ 1 7	2 7	1 2 7	3 7	1 3 7	2 3 7	1 2 3 7	4 7
65	66	67	68	69	70	71	72
ON ⇒ 1 4 7	2 4 7	1 2 4 7	3 4 7	1 3 4 7	2 3 4 7	1 2 3 4 7	5 7
73	74	75	76	77	78	79	80
ON ⇒ 1 5 7	2 5 7	1 2 5 7	3 5 7	1 3 5 7	2 3 5 7	1 2 3 5 7	4 5 7
81	82	83	84	85	86	87	88
ON ⇒ 1 4 5 7	2 4 5 7	1 2 4 5 7	3 4 5 7	1 3 4 5 7	2 3 4 5 7	1 2 3 4 5 7	6 7
89	90	91	92	93	94	95	96
ON ⇒ 1 6 7	2 6 7	1 2 6 7	3 6 7	1 3 6 7	2 3 6 7	1 2 3 6 7	4 6 7
97	98	99	100	101	102	103	104
ON ⇒ 1 4 6 7	2 4 6 7	1 2 4 6 7	3 4 6 7	1 3 4 6 7	2 3 4 6 7	1 2 3 4 6 7	5 6 7
105	106	107	108	109	110	111	112
ON ⇒ 1 5 6 7	2 5 6 7	1 2 5 6 7	3 5 6 7	1 3 5 6 7	2 3 5 6 7	1 2 3 5 6 7	4 5 6 7
113	114	115	116	117	118	119	120
ON ⇒ 1 4 5 6 7	2 4 5 6 7	1 2 4 5 6 7	3 4 5 6 7	1 3 4 5 6 7			
121	122	123	124	125			

Addresses 126-250 only
for XP protocol products

Addresses 126~250

					2 3 4 5 6 7	1 2 3 4 5 6 7	8
					126	127	128
ON ⇒ 1 8	2 8	1 2 8	3 8	1 3 8	2 3 8	1 2 3 8	4 8
129	130	131	132	133	134	135	136
ON ⇒ 1 4 8	2 4 8	1 2 4 8	3 4 8	1 3 4 8	2 3 4 8	1 2 3 4 8	5 8
137	138	139	140	141	142	143	144
ON ⇒ 1 5 8	2 5 8	1 2 5 8	3 5 8	1 3 5 8	2 3 5 8	1 2 3 5 8	4 5 8
145	146	147	148	149	150	151	152
ON ⇒ 1 4 5 8	2 4 5 8	1 2 4 5 8	3 4 5 8	1 3 4 5 8	2 3 4 5 8	1 2 3 4 5 8	6 8
153	154	155	156	157	158	159	160
ON ⇒ 1 6 8	2 6 8	1 2 6 8	3 6 8	1 3 6 8	2 3 6 8	1 2 3 6 8	4 6 8
161	162	163	164	165	166	167	168
ON ⇒ 1 4 6 8	2 4 6 8	1 2 4 6 8	3 4 6 8	1 3 4 6 8	2 3 4 6 8	1 2 3 4 6 8	5 6 8
169	170	171	172	173	174	175	176
ON ⇒ 1 5 6 8	2 5 6 8	1 2 5 6 8	3 5 6 8	1 3 5 6 8	2 3 5 6 8	1 2 3 5 6 8	4 5 6 8
177	178	179	180	181	182	183	184
ON ⇒ 1 4 5 6 8	2 4 5 6 8	1 2 4 5 6 8	3 4 5 6 8	1 3 4 5 6 8	2 3 4 5 6 8	1 2 3 4 5 6 8	7 8
185	186	187	188	189	190	191	192
ON ⇒ 1 7 8	2 7 8	1 2 7 8	3 7 8	1 3 7 8	2 3 7 8	1 2 3 7 8	4 7 8
193	194	195	196	197	198	199	200
ON ⇒ 1 4 7 8	2 4 7 8	1 2 4 7 8	3 4 7 8	1 3 4 7 8	2 3 4 7 8	1 2 3 4 7 8	5 7 8
201	202	203	204	205	206	207	208
ON ⇒ 1 5 7 8	2 5 7 8	1 2 5 7 8	3 5 7 8	1 3 5 7 8	2 3 5 7 8	1 2 3 5 7 8	4 5 7 8
209	210	211	212	213	214	215	216
ON ⇒ 1 4 5 7 8	2 4 5 7 8	1 2 4 5 7 8	3 4 5 7 8	1 3 4 5 7 8	2 3 4 5 7 8	1 2 3 4 5 7 8	6 7 8
217	218	219	220	221	222	223	224
ON ⇒ 1 6 7 8	2 6 7 8	1 2 6 7 8	3 6 7 8	1 3 6 7 8	2 3 6 7 8	1 2 3 6 7 8	4 6 7 8
225	226	227	228	229	230	231	232
ON ⇒ 1 4 6 7 8	2 4 6 7 8	1 2 4 6 7 8	3 4 6 7 8	1 3 4 6 7 8	2 3 4 6 7 8	1 2 3 4 6 7 8	5 6 7 8
233	234	235	236	237	238	239	240
ON ⇒ 1 5 6 7 8	2 5 6 7 8	1 2 5 6 7 8	3 5 6 7 8	1 3 5 6 7 8	2 3 5 6 7 8	1 2 3 5 6 7 8	4 5 6 7 8
241	242	243	244	245	246	247	248
ON ⇒ 1 4 5 6 7 8	2 4 5 6 7 8						
249	250						