4099 MAPNET II /IDNet Addressable Manual Pull Station with LED Installation Instructions

Installation

The Addressable Manual Pull Station with LED installation consists of the following:

1. Setting the Pull Station address
2. Making electrical connections to the Pull Station

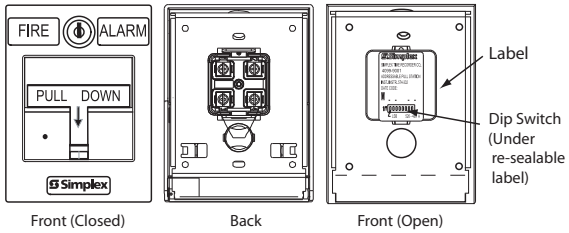
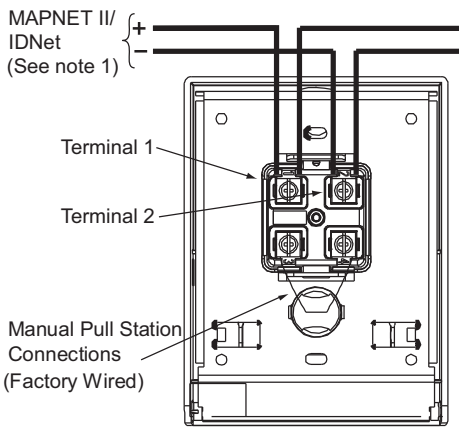


Figure 1. Addressable Manual Pull Station with LED

Making Electrical Connections to the Pull Station

The IDNet or MAPNET II signal connects to the Pull Station via terminals 1 and 2. Terminals 3 and 4 are factory wired and are not used for field wiring. Terminal connections for the Pull Station are illustrated in Figure 2.



Notes:
1. When connecting 2 wires to 1 terminal, position 1 wire on each side of the terminal screw. Maximum allowable run from FACP to farthest device is 2500 ft (762 m). Maximum total wire, including all T-Taps, from FACP is 10,000 ft (3 km). IDNet and MAPNET II lines are 18 AWG (0.82 mm2) twisted pair (shield recommended).

2. Refer to Field Wiring Diagram 842-073 for further information on wiring Addressable Manual Pull Stations to IDNet. Refer to Field Wiring Diagrams 841-804 or 841-996 for further information on wiring Addressable Manual Pull Stations to MAPNET II. IDNet and MAPNET II wiring are supervised and Power-Limited.

Figure 2. Class A or B Wiring Installation

Mechanically Installing the Pull Station

Install the Pull Station into a listed single-gang or 4-inch square electrical box (not supplied), using Figure 3 as a reference.

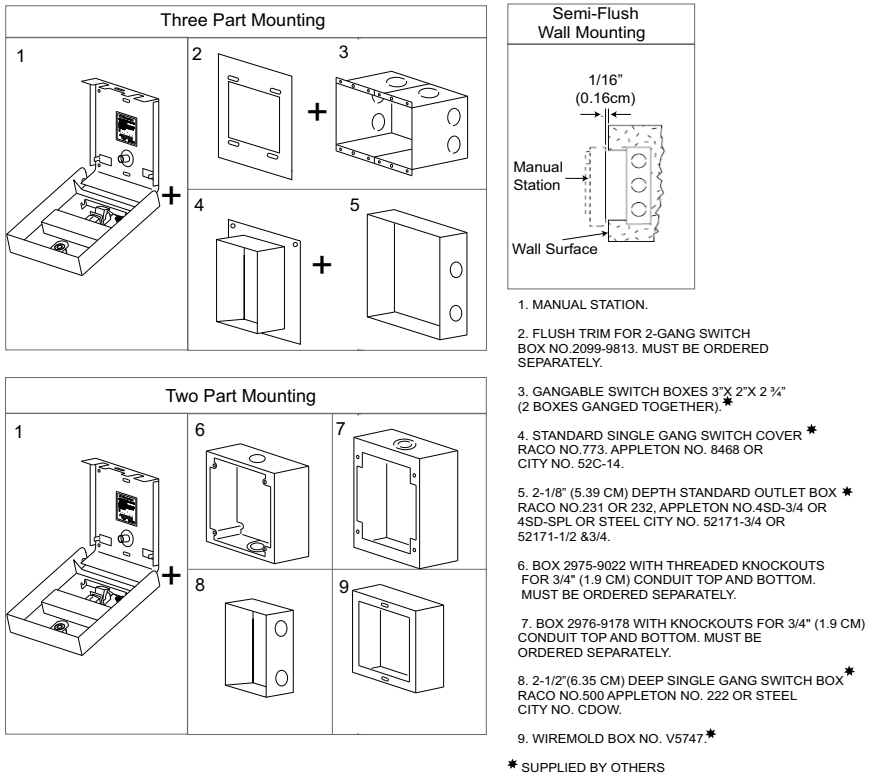


Figure 3. Mounting the Adressable Manual Pull Station with LED

Cautions and Warnings:

READ AND SAVE THESE INSTRUCTIONS- Follow the instructions in this installation manual. These instructions must be followed to avoid damage to this product and associated equipment. Product operation and reliability depend upon proper installation.

DO NOT INSTALL ANY SIMPLEX® PRODUCT THAT APPEARS DAMAGED- Upon unpacking your Simplex product, inspect the contents of the carton for shipping damage. If damage is apparent, immediately file a claim with the carrier and notify an authorized Simplex product supplier.

ELECTRICAL HAZARD - Disconnect electrical field power when making any internal adjustments or repairs. All repairs should be performed by a representative or authorized agent of your local Simplex product supplier.

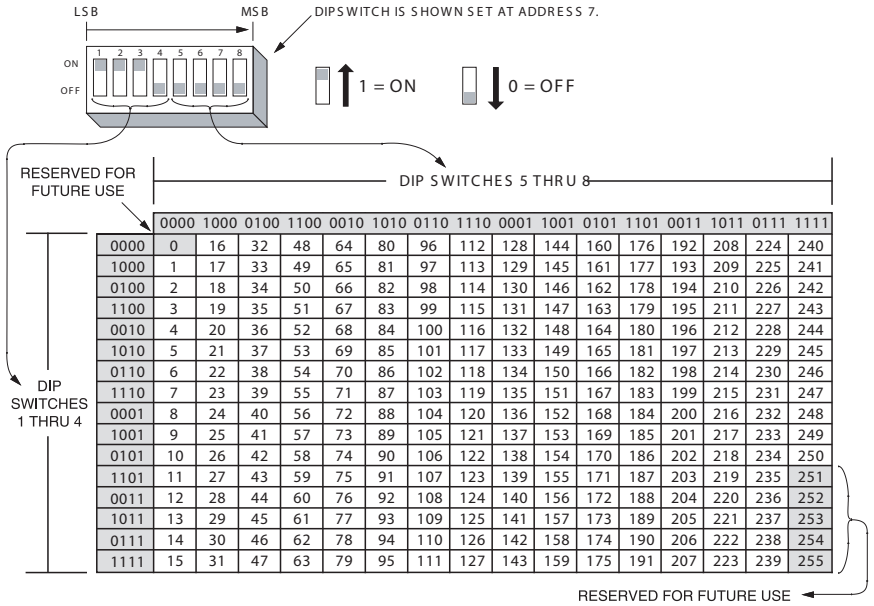
STATIC HAZARD - Static electricity can damage components. Handle as follows: Ground yourself before opening or installing components. Prior to installation, keep components wrapped in anti-static material at all times.

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579-1135
Rev. B

Setting the Pull Station Address

Each Pull Station has a unique address that is set via an eight-position DIP switch. DIP switch position 1 is the least significant bit (LSB) and position 8 is the most significant bit (MSB).

Set the address using Figure 4 as reference. Use a small screwdriver or pen to set the switches. The device address for the Pull Station should be written on the re-sealable label. This information provides aid while troubleshooting the system.



	0000	1000	0100	1100	0010	1010	0110	1110	0001	1001	0101	1101	0011	1011	0111	1111
0000	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
1000	1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
0100	2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
1100	3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
0010	4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
1010	5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
0110	6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
1110	7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
0001	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
1001	9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
0101	10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
1101	11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
0011	12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
1011	13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
0111	14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
1111	15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

Figure 4. Addressable Manual Pull Station with LED Address Chart

Notes:
1. The IDNet channel (4010 FACP only) supports address codes 1 through 250. The MAPNET II channel (4100, or 4120, or 4020 FACP) supports address codes 1 through 127.
2. 4010 FACP (IDNet Channel) references: Installation and Programming manual 574-187; 4010 Fire Alarm manual 574-052; 4010 panel label 526-444.
3. 4100/4120/4020 FACP (MAPNET II Channel) references: 4100,4120, or 4020 Programmer's Report.

Manual Pull Station Operation

A) Single Action Stations 4099-9004 (see Figure 6A)

To activate:

Pull the handle down firmly to break the rod that is visible below the handle. This causes an alarm to sound and the actuation of annunciator contacts, if provided.

To reset:

Unlock and open the front of the station and replace the rod.

Manual Pull Station Operation, *Continued*

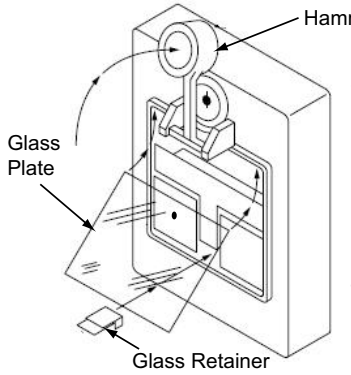
B) Double Action "Break Glass" Stations4099-9005 (see Figure 6B)

To activate:

1. Break the glass with the hammer.
2. Pull the handle down firmly to break the rod that is visible below the handle. This causes an alarm to sound and the actuation of annunciator contacts if, provided.

To reset:

1. Unlock and open the front of the station and replace the rod.
2. Replace the glass plate as shown in the replacement drawing (see Figure 5).



To replace the glass plate:

1. Swing the hammer away from the front of the station.
2. Fit the glass retainer to the bottom of the glass plate.
3. Fit the top of the glass plate behind the tab.
4. Slide the glass retainer into the station until it snaps into place.
5. Gently return the hammer to its normal position.

Figure 5. Replacing Glass Plate

C) Double Action "Push Type" Stations 4099-9006 & 4099-9015 (see Figure 6C)

To activate:

1. Push on the push bar.
2. Pull the handle down firmly to break the rod that is visible below the handle. This causes an alarm to sound and the actuation of annunciator contacts, if provided.

To reset:

Unlock and open the front of the station and replace the rod.

D) Single Action NO GRIP Station 4099-9021 (see Figure 6D)

To activate:

Rotate actuator forward and down to break the rod that is visible below the handle.This causes an alarm to sound and the actuation of annunciator contacts, if provided.

To reset:

Unlock and open the front of the station and replace the rod.

Notes:
1. 4099 Series stations for release applications (4099-9015) has a blank area on the front of the station for an application label. Label Kit 4099-9802 is ordered separately and provides 6 release applications labels (see Figure 6E).
2. 4099-9004 can be retrofitted to be a NO GRIP manual station using 4098-9805 retrofit kit.

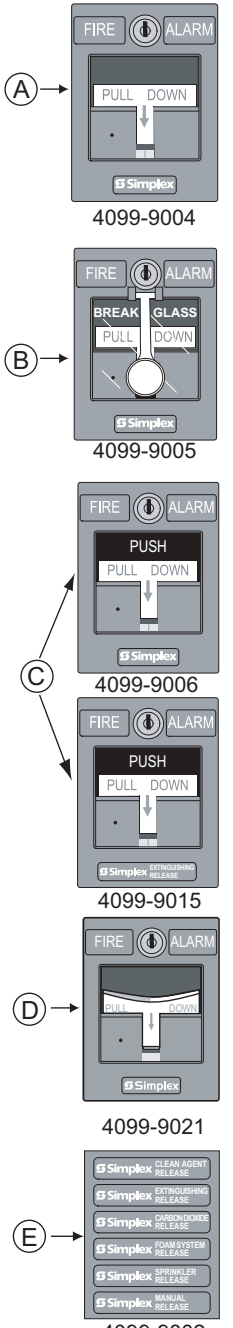


Figure 6. Addressable Manual Pull Stations

579-1135
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