

AP12 Alarm Panel

ys6319
revision B, 4th May 2007
catalogue section 25



- **12 channel fault and status indication**
- **Optional battery backup for operation during AC mains failure**
- **Designed to Loss Prevention Council standards**
- **Programmable inputs, outputs and indicators**
- **Multiple repeater units via two-wire communication link**

Description

The AP12 is a 12 channel alarm annunciator, designed to the requirements of the Loss Prevention Council. The panel has been primarily designed to provide status and fault indication for a fire pump control system, but may also be used in a wide range of building and general purpose control panel applications.

Fault or status indication is by 12 front facia LEDs, with associated windows for user-defined labelling (see overleaf). The unit may be programmed so that LEDs light or extinguish when the corresponding input is activated. Each channel may also be set with a number of different output and alarm options. 10 additional LEDs are used for both programming and to indicate system faults; a single green LED indicates 'mains power on'.

Operator control is by three front facia push keys: 1) fault acknowledgement (muting of the integral audible alarm), 2) fault reset and 3) lamp test. These keys are also used during program setup.

Electrical connection is via screw terminals, located at the foot of the front facia under a sealed cover. Connections are provided for the AC power supply, 12 inputs, 12 semiconductor outputs (which mirror each input) and a 'common alarm' relay output. Cable access is through punchable holes in the panel base or rear.

Screw terminals also allow connection of an optional communication link. Using this link, one or more additional AP12s may be set to operate as slave repeater units. Slave units may be remotely located up to 1000 metres from the master controller.

Product specification

Power supply:

operating voltage	220 – 240 VAC nominal
operating frequency	50 / 60Hz nominal
battery backup (AP12B)	allows operation of 6 channels for a minimum of 24 hours

Input 1 - 12

input and common terminals for use with remote volt free contacts. Inputs may be individually set to activate on either closing or opening contacts

Outputs

outputs 1 - 12	open collector transistor (active low), max. 250mA / 50VDC per output
common alarm	SPDT volt-free contacts, rated 1A @ 240VAC (resistive load)

General:

dimensions (w x h x d)	380 x 315 x 160 mm
ambient temperature	0 to 40°C
weight	approx. 3.5 Kg
environmental sealing	IP55

Model AP12B features an on-board battery backup that ensures operation during an AC power failure. With 6 channels active, the AP12B will remain operational on battery power for at least 24 hours.

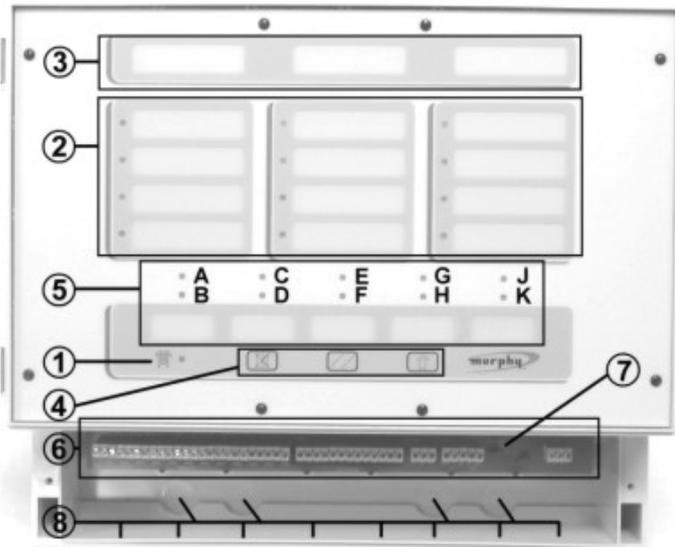
The AP12 is housed in a robust plastic, wall-mounted enclosure with a clear front facia door. With the door closed and the unit correctly installed, the case provides environmental protection to IP55.

Warranty

A two year limited warranty on materials and workmanship is given with this Murphy product. Details are available on request and at www.fwmurphy.co.uk/warranty.

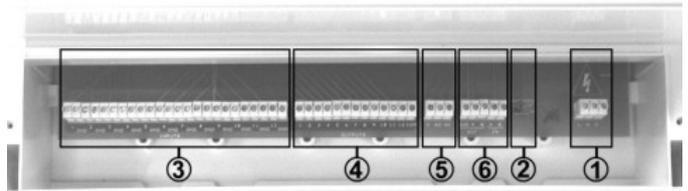
MURPHY

Front facia



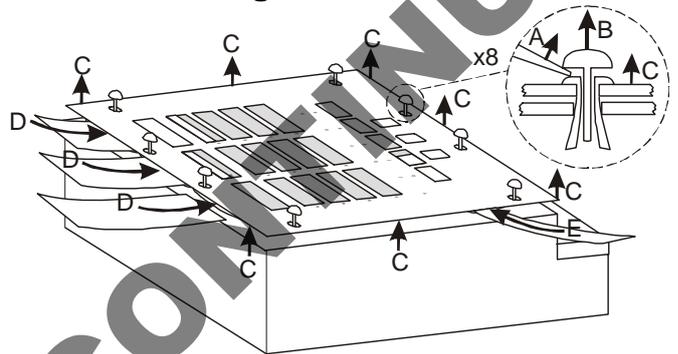
- 1 Mains power on LED (green)
- 2 12 x status/fault LEDs (red), each with a window for a user-defined message
- 3 3 heading windows (for optional, user-defined message)
- 4 Operator control push-buttons:
 -  Alarm mute
 -  Reset
 -  Lamp Test
- 5 Program mode and system fault LEDs A – K (amber), with 5 custom message windows.
- 6 Electrical connection terminals
- 7 Battery backup on/off link (AP12B only)
- 8 Cable access (punchable holes)

Electrical connection

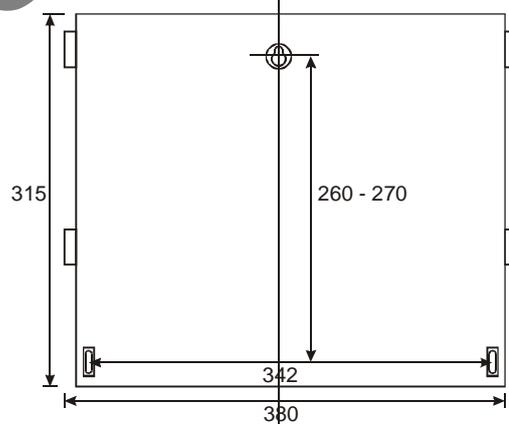


1. AC power supply, 220 – 240VAC
2. Battery enable/disable link (AP12B only)
3. Inputs 1 – 12 (from volt free contacts)
4. Outputs 1 – 12 (open collector transistor)
5. Common alarm output (volt free relay)
6. Communications for master/slave units

Custom labelling



Fixing dimensions (mm)



How to order

Stock code	Model, description
26.70.0002	AP12 alarm unit, no battery backup
26.70.0001	AP12B alarm unit with battery backup

MURPHY

FRANK W. MURPHY LTD.
 Church Rd, Laverstock,
 Salisbury, SP1 1QZ, United Kingdom
 tel: +44 1722 410055
 fax: +44 1722 410088
 email: sales@fwmurphy.co.uk
 web: www.fwmurphy.co.uk

FW MURPHY
 PO Box 470248
 Tulsa, Oklahoma 74147, USA
 tel: +1 918 317 4100
 fax: +1 918 317 4266
 email: sales@fwmurphy.com
 web: www.fwmurphy.com



In order to consistently bring you the highest quality, full featured products, we reserve the right to change our specifications and designs at any time. MURPHY, the Murphy logo, are registered and/or common law trademarks of Murphy Industries, Inc. This document, including textual matter and illustrations, is copyright protected by Frank W Murphy Ltd., with all rights reserved. © 2006 Frank W Murphy Ltd.