SmartNet-100 Fire Control Panel
32 Zones

Part Number: S1.CIE10.A / S1.CIE60.A

Wireless Fire Control Panel with Color Touch Screen Display

The Cygnus SmartNet wireless fire detection and alarm system is a network of battery powered, wireless fire detection and alarm products suitable for permanent installations, commercial premises and HMOs.

This Control Panel is for use with up to 100 SmartNet devices, serving medium-sized sites.

Other products in the range include Smoke and Heat Detectors, Manual Call Points, First Aid Alarms, and Alarm Interface Unit.

Overview

- Reliable wireless mesh radio technology
- Completely wireless communication
- Requires single mains power connection to Control Panel
- Cause & Effect engine
- Sensitive radio with up to 700m range
- 868MHz Radio (915MHz also available)
- Three-to-four-day backup battery life
- Wired terminal connections for inputs, outputs and expansion
- Designed to be EN 54 compliant
- Certified by Intertek

Features

- 7" full-colour touchscreen display
- Resistive touchscreen for use with gloves
- Recessed or surface mount enclosure
- Key-lockable door
- Level 2 key access
- Removeable internal parts for ease of installation
- Removeable door
- Silent test mode
- Zone LED option for BS5839 compliance
- Easy configuration via the Windows based Cygnus ConfigGUI application

Parameters

Dimensions (mm)	Surface mounted	460w x 385h x 105d (excluding keys)
	Recessed	460w x 385h x 50d (excluding keys)
Weight		7.8kg with batteries (3.4kg without)
Operating temperature		-5°C to +40°C
IP rating		IP30
Relative humidity		95% @ 40°C

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Power

Operating voltage range	230V AC ±10%, 50/60 Hz
Rated current	0.4A rms
Backup batteries	2x NP7-12FR 12V SLA, 7Ah (Fire Rated) *2
Backup battery voltage	24V (2x 12V batteries connected in series)
Mains power wiring	Supplied fitted with 13A plug
Battery life – 2x 7Ah batteries	3 days
Fuse ratings	Mains Fuse: T1A H250V, 1A (slow blow) 5 x 20mm Battery Fuse: 3A Mini-Automotive Blade Fuse

Radio

Radio operating frequency	865 to 868 MHz
Radio category	Category 1
Channels	10 (with channel hopping algorithm)
Bandwidth	250kHz
Channel spacing	300kHz
Transmit power	10mW (maximum)
Duty cycle	<0.1%
Protocol	Cygnus mesh protocol
Encryption	TDES (64-bit payload, 192-bit encryption key)
Self-forming	Cygnus self-forming algorithm
Self-healing	Cygnus self-healing algorithm

Compliance

Current:
- ETSI EN 300 220-1 V3.1.1 (2017-02)
- ETSI EN 301 489-1 V2.2.2 (2019-09)
- ETSI EN 301 489-3 V2.1.1 (2019-03)
- EN61000-6-3:2007 +A1:2011
- EN50130-4:2011 +A1:2014
- EN61000-3-2:2014
- EN61000-3-3:2013

- EN 54-2:1997 + A1-2006
- EN54-4:1997+A1:2002+A2:2006
- EN 54-25:2008

Independently tested Intertek

UK CA 0359

CE 0905

*2 Approved Batteries:
Yuasa NP7-12FR, Enersys NP7-12FR

Notes

- Ordering options as follows:

Model	Zones	Zone LEDs
S1.CIE10.A	32	Yes
S1.CIE60.A	32	No

- Zone LEDs hidden until lit

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