Datasheet



SmartNet 100 Fire Control Panel: 32 Zones

\$1.CIE10.A / \$1.CIE60.A

Wireless Fire Control Panel with Colour 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

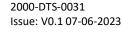
- Reliable wireless mesh radio technology
- Completely wireless communication
- Requires single mains power connection to Control Panel
- Cause & Effect engine
- Sensitive radio with up to 700m range
- 868MHz Radio (915MHz also available)
- Three-to-four-day backup battery life
- Wired terminal connections 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 Recessed	460w x 385h x 105d (excluding keys) 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	





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







*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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