

SmartNet-100 Fire Manual Call Point with Radio Base

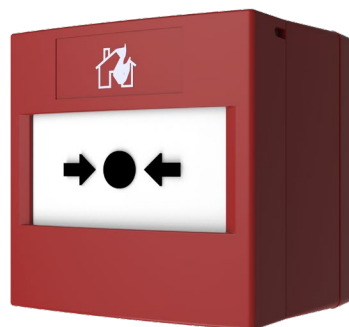
Part Number: S1.MCPO.RB30.1

Fire Manual Call Point with Radio Base

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.

The Manual Call Point is for use with up to 511 other devices, serving small and large sites. It provides manual call point activation with radio in a single device.

Other products in the range include: Smoke and Heat Detectors, Manual Call Points, Alarm Interface Units and Control Panel.



Overview

- Reliable wireless mesh radio technology
- Completely wireless – no cables required
- Sensitive radio with up to 350m range
- 868MHz radio (915MHz also available)
- 3+ year battery life
- Designed to be EN 54 compliant (red bases only)
- Certified by Intertekaw
- Easy configuration via the Windows based CygnusConfig application
- Compatible with other Cygnus SmartNet devices

Features

Fire Manual Call Point	Resettable push-button type (no glass)
Silent test	Yes
Tamper detection	Base

Parameters

Dimensions (mm)	92h x 92w x 87d
Weight	485g
Operating temperature	-10°C to +55°C
Storage temperature	-10°C to +55°C
IP rating	IP21C, Type A (Indoor)
Relative humidity	>95% @ 25°C to 55°C

Power	
Operating voltage range	2.5 to 3.8V (from lithium batteries)
Main battery	3x ER26500 Li-SOCl ₂ (lithium thionyl chloride)
Backup battery	1x CR123 (must be fitted)
Battery Voltages	ER26500 = 3.6V nom. CR123 = 3.0V nom.
Power consumption	3mW
Battery life	Min 3 years (normal operation)

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

In progress:

- EN 54-11:2001+A1:2005
- EN 54-18:2005
- EN 54-25:2008

Model	Base Colour	Clear Cover Fitted	EN 54-11 :2001+A1:2005 Compliant
S1.MCPO.RB30.2	Red	Yes	Yes
S1.MCPO.RB30.A	White	Yes	No
S1.MCPO.RB30.2.X	Red	No	Yes
S1.MCPO.RB30.A.X	White	No	No

IO Functions (for EN 54-18:2005)

Inputs:

- Radio messaging from other devices
- Manual Call Point
- Installation tamper switch

Outputs:

- Radio messaging to other devices