

Product Description

The WEMSccontroller 3 is a 12VDC powered intelligent wireless analogue Input/Output module for WEMS International's wireless building energy management system; providing 3 analogue 0-10V outputs and 2 0-10V/4-20mA analogue inputs.

i For product operation and installation information please refer to the WEMSccontroller 3 user manual.

Features

- High performance wireless narrow band operation
- Up to 2km line-of-sight range
- Multi-hop wireless protocol
- License-free use
- 69 selectable RF channels
- Low power consumption
- 3x 0-10V analogue outputs with failsafe
- Analogue output status LEDs
- Analogue output override buttons
- 2x Analogue inputs configurable for 0-10V or 4-20mA
- Signal test/discovery button
- DIN rail mount

Compliance

EMC

- EN 301489-1: 2008
- EN 55022: 2006
- EN 61000-4-3: 2006
- EN 61000-4-2: 2001
- EN 61000-4-4: 2004
- EN 61000-4-5: 2006
- EN 61000-4-6: 2005
- EN 61000-4-11: 2004
- EN 61000-3-3: 1995

Safety

- EN 60950: Information technology equipment
- EN 60730: Automatic electrical controls
- EN 50366: Domestic equipment

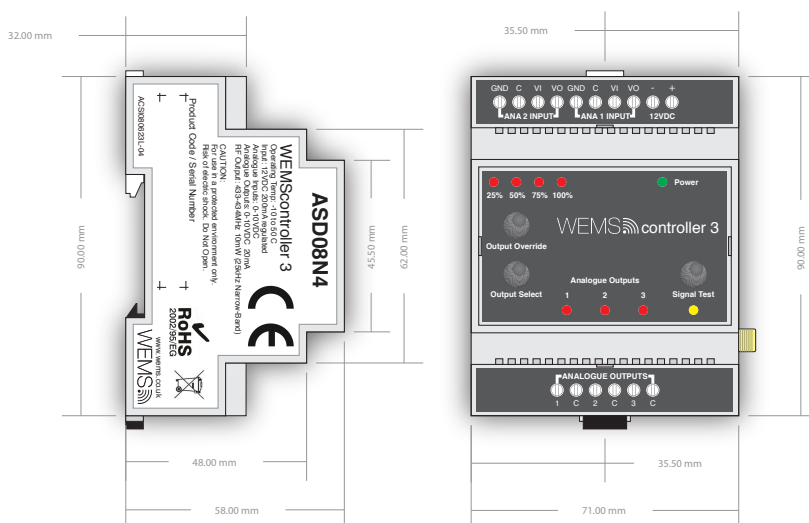
Wireless

- EU R&TTE directive for 25kHz
- EN 300 220: EMC standard for short range devices
- EN 301 489: EMC standard for radio equipment and services

Specifications

Operating Temperature Range	-10 to +50 DegC
Operating Humidity	< 75% RH (Non condensing)
Storage Temperature	-20 to +85 DegC
Storage Humidity	< 90% RH (Non condensing)
Cooling	Convection
Supply Voltage	12VDC regulated (+/- 0.5V)
Current Consumption	200mA (2.4W) max
Ripple / Noise	100mV p-p max
Analogue Outputs	0-10VDC (20mA max)
Analogue Output Resolution	5mV (10-bit)
Analogue Output Accuracy	+/- 0.05V
Analogue Inputs	0-10VDC or 4-20mA (Current loop)
Analogue Input Resolution	5mV (10-bit)
Analogue Input Accuracy	+/- 0.05V
Antenna Connector	Female 50Ω SMA (SubMiniature version A)
Antenna	
RF Frequency	433.05 - 434.79MHz
RF Output	8dBm max
RF Sensitivity	-115dBm
RF Bandwidth	25kHz (Narrow band)
RF Channels	69
Weight	133g (Without antenna)
Enclosure	UL94-VO flame retardant PC, IP20 rated
Terminal Covers	UL94-VO, IP20 finger protection
Mounting	35mm DIN rail (EN 50022, BS 5584, DIN 46277-3) or direct surface mount. Optional adaptor for G rail mounting

Dimensions



WIRELESS ENERGY MANAGEMENT SYSTEMS INTERNATIONAL
www.wems.co.uk