

Smart IP Router

product 106S3

Delmatic's Smart IP Router forms part of a site-wide lighting management and integrated building system, and optimises data transmission across the network.

The Smart IP Router is a versatile device that connects Lon devices to IP-based applications, and incorporates built-in drivers for LonWorks and LNS Remote Network Interface as well as Modbus, M-Bus, and SOAP/XML.



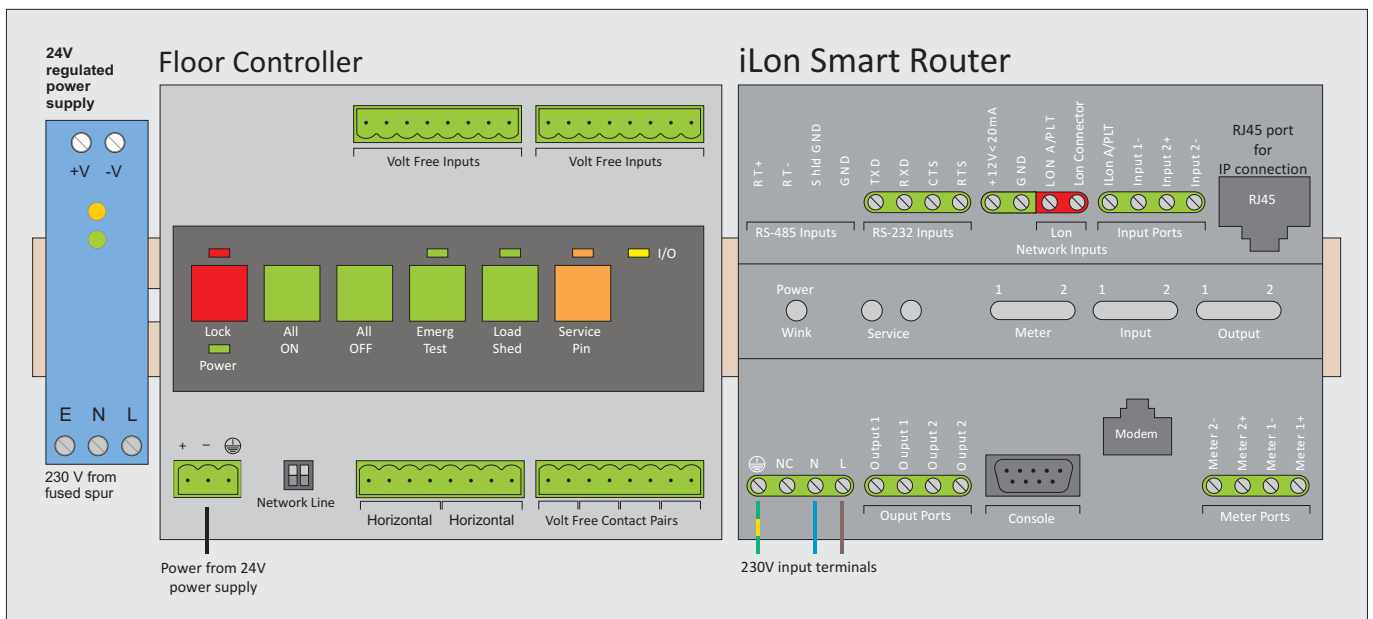
The Router is easy to configure & manage using Delmatic Lightscape software as well as on-board web pages. The router accepts direct digital inputs & provides digital output points.

Passcode-protected controls provide access to master on and off functions and emergency test routines. The unit accepts the connection of a laptop or handheld device for local configuration and monitoring and includes integral network termination resistors.

The Smart IP Router is supplied BACnet enabled and an optional software upgrade converts the router into a powerful LON BACnet device.



smart IP router features



controls:

- Service button,
- Reset button,
- Master on/off control
- Emergency test start/stop
- Loadshed start/stop
- Network line resistance selector

indicators:

- Power On,
- Ethernet link, Ethernet activity, 10/100 Mbps
- LonWorks Transmit and Receive activity
- Digital inputs, Digital outputs
- Remote Network Interface connection status
- Emergency test active
- Service LED (floor controller)
- Service LED (router)

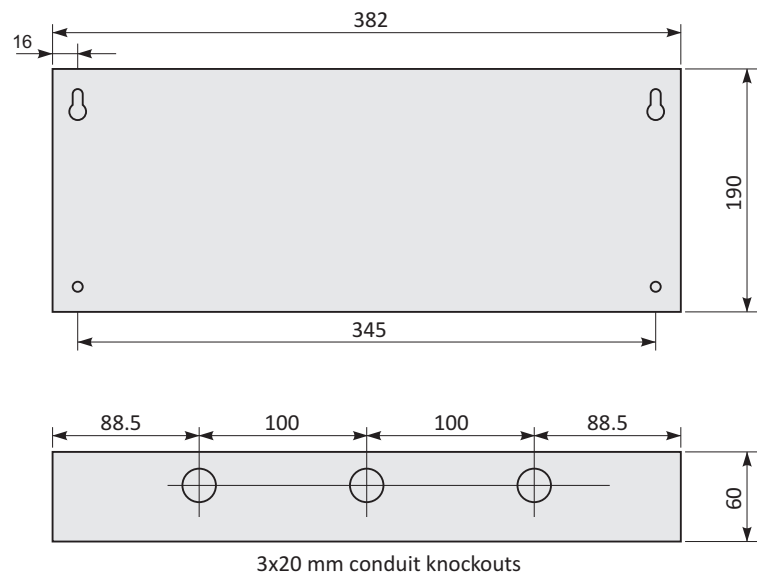
mounting and dimensions

The Smart IP Router should be installed in an accessible location, ideally at a height of 1.5 m from floor level.

The box is mounted using four M5 screw fixings. The top two holes use keyhole fixings for ease installation.

All dimensions in millimetres.

Top and bottom sides contain three 20 mm knockouts for conduit entry.



technical details

operating input voltage	100 - 240VAC (-6%/+10%), 50/60Hz
power consumption	<15 watts
operating temperature	0 to +50°C
operating humidity	10 to 90% RH @ 50°C (non-condensing)
dimensions (mm)	382 (w) x 190 (h) x 60 (d)
housing/enclosure	painted galvanised steel enclosure
ethernet port:	10/100BaseT, auto-selecting, auto polarity
serial ports:	1 isolated RS-485 port: 1 EIA-232 port.
digital inputs	2 optically isolated dry contacts (30V AC/DC) 4 volt free inputs
relay outputs:	2 SPST relays rated 24VDC@10A. 4 SPST relays rated max. 50VDC@10mA - 1A
network capacity:	supports up to 60 lighting control modules
connectivity:	Connects to building IT network linking routers Connects to horizontal bus linking up to 60 lighting control modules via twisted pair cable.
buswire spec:	refer to Buswire Specification data sheet
network cable length:	500m (maximum free topology without repeater)

network and device interfaces

- IP via built-in 10/100BaseT Ethernet interface
- TP/FT-10 free topology twisted pair
- ISO/IEC 14908-1 (LONWORKS) with built-in LON transceiver
- Modbus RTU with built-in RS-485 transceiver
- Modbus TCP (Modbus TCP/IP) with built-in Ethernet interface
- M-Bus with built-in RS-485 transceiver
- Custom drivers using built-in Ethernet,
- RS-232, & RS-485 interfaces

user interfaces

The Smart IP Router can be locally or remotely configured via:

- Delmatic's Lightscape Server and GUI Client software.
- Built-in web pages for network installation, commissioning, scheduling, alarming, data logging, and network integration.

standards-based protocols

- IP local and wide area networking protocols and Internet standards include TCP, IPv4, IPv6, PPP, CHAP, PAP, DHCP, DNS, FTP, ICMP, MD5, SMTP, SNMP, SNTIP, HTTP, HTTPS, and SSL.
- Additional IP application protocols: HTML, XML and SOAP
- NAT is supported

IP-852 routing

- ISO/IEC 14908-4 (IP-852) routing of Lon over IP network
- IP-852 channel supports thousands of packets per second for high-performance monitoring and control