

BENEFITS



REFERENCES

Ensure continuity of service

The two Ethernet plugs and the embedded switch ensure redundancy by chaining routers together.

Secured by 802.1x

The router secures the access of BMS protocols to the building IP network through 802.1x authentication.

Save money

For less than 6W, manage up to 250 Lon products, or 100 IzoT™ product or 120 Modbus or BACnet™ MS/TP products. Multi protocol routing reduces the number of products in the cabinet.

+ than 80 References

Our range covers 90% of the protocols used in BMS in a single product.

IzoT™ opens the doors to IP

IzoT™ routers offer full compatibility with all Lon and new IzoT products. The latter access IP naturally through the IzoT Oxtopus.

Scheduler option (SC)

The 10 on-board scheduler control your Lon and IzoT™ devices as close to the field as possible. The supervision system configures them in BACnet.

Wireless option

It allows to a PC an Ethernet/IP access in the cabinet. Activation and deactivation is simply done on the front panel for incresing security.

TOP 10 OXTOPUS SALES

	Lon/ IzoT	Modbus	BACnet	Scheduler
OX-1LO	1			
OX-1LO-1MO	1	1		
OX-2LO	2			
OX-2LO-1MO-SC	2	1		10
OX-4LO	4			
OX-1IZOT	1		1	
OX-2IZOT-SC	2		2	10
OX-1MO		1		
OX-2MO		2		
OX-2BA			2	

Ask your price list and find all our Oxtopus router references on request to contact@occitaline.com.

TECHNICAL SPECIFICATIONS

Power supply	12-24VDC et 24VAC - 6VA
Size and format	161 x 88.5 x 56 mm, montage sur Rail DIN 43880
Operating conditions	0+60°C in operation / -20+80°C in storage/ 10-80% RH
Protection	IP20
Certification	CE standard, all components comply with the ROHS directive
CEM	Emission EN 55022 A/B – Immunity EN 61000-6-2
Flammability	UL94-VO autoextinguible

All information about this product by scanning this QR code :



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Routing twisted pair protocols to IP



SECURE BMS WITH 802.1X

802.1X secures Ethernet access for wired BMS protocols (Lon, IzoT™, Modbus, BACnet™).



OPEN & INTEROPERABLE

All protocols used are standardized to avoid the use of gateways and create a single network accessible by the BMS.



SIMPLIFY THE ARCHITECTURE

Combine several protocols in a single box from 1 to 4 channels. Choose the right equipment for your project from over 80 references. Wireless and Scheduler options are close to the field and reduce the number of products in project.



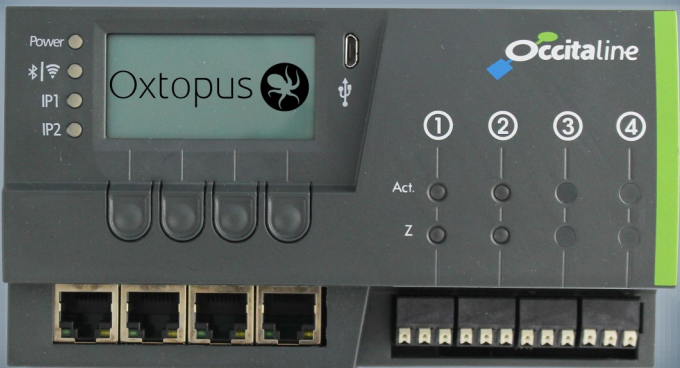
DIAGNOSE THE NETWORKS

Each wired network is continuously monitored to detect possible breakdowns. Each protocol has its own statistics to refine the diagnosis on commissioning or maintenance.



ACCESS IP OVER TWISTED PAIR

Oxtopus IzoT™ routers offer sustainability of Lon installations by sharing the same medium with IzoT™ products. These communicate natively in Lon, BACnet™/IP and IP over the same twisted pair without any gateway with the lowest power consumption.



LonWorks

IzoT™



ASHRAE BACnet™

The Oxtopus router range offers great modularity in its uses thanks to over 80 references. Its on-board multi-protocol capability and its many assets, such as Wireless or the Scheduler, make it a product that is both compact and energy efficient.

To meet the security requirements of BMS technical installations, the Oxtopus offers authentication via 802.1x.

802.1x security protocol

Standard 802.1x authentication, which has been used for many years in IT, is now coming to BMS to protect all protocols.

The multi-protocol router with 80 references

Four slots supporting Lon, IzoT™, Modbus RTU and BACnet™ MS/TP on twisted pair networks provide flexibility for all your BMS projects.

The most energy-efficient IP infrastructure

Only 6W of power consumption is enough to have more than 250 products over IP/Ethernet.

Scheduler

Reduce your energy consumption by 30% by scheduling your technical installations without the need of an additional PLC. This function is carried out more reliably because it is located closer to field. The scada system accesses the weekly programming via BACnet.

Wireless option

Maintenance and access by Ethernet/IP network is facilitated by the Wireless connection which can be activated and deactivated via the menu on the front panel. The *LNS remote* becomes easily usable on each floor.

LCD display and fault LEDs on the front panel for improved ergonomics.

The screen displays the router's IP address, name and Lon port bandwidths. For all wired networks, monitoring of line outages or disturbances are immediately visible in red, while the green « Z » LEDs indicate a good bus.

Dual RJ45 Ethernet plug

It avoids the use of Ethernet switches for a private network. All *daisy-chained* routers looped back to a switch with *spanning tree* ensure redundancy of all BMS protocols. This architecture reduces the energy consumption of the IP infrastructure.

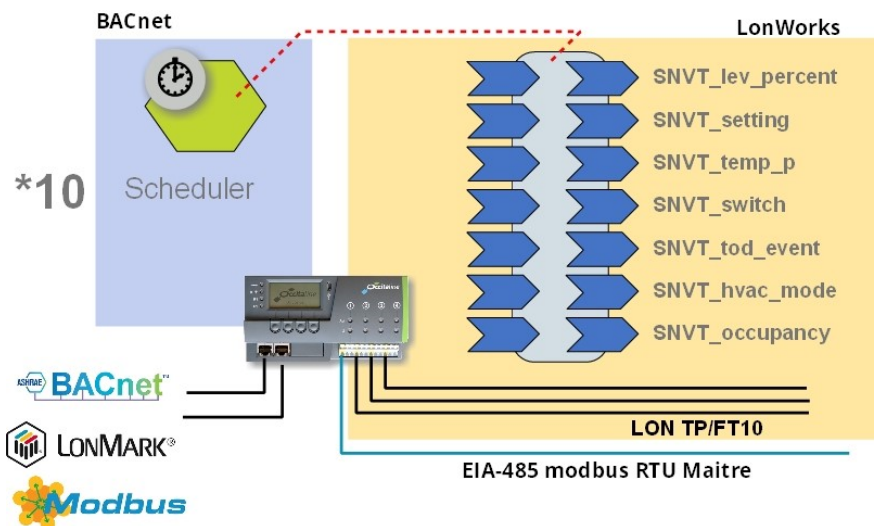


Diagnostics and statistics : tools to monitor your network

The statistics of each BMS protocols are accessible on a Modbus/IP server to be consulted by the SCADA in a simple way. They can be consulted during the commissioning and maintenance phases on the router's web pages.

Modbus routing

Modbus RTU/IP conversion is often provided by gateway that must be programmed each time a product is added or another register is needed. In case we use Oxtopus, the Modbus routing is done between a source slave address to a slot and slave destination address, allowing any Modbus client to access all registers of all field devices without any programming.



Oxtopus IzoT™ router

The IzoT™, the latest in the evolution of the Lon protocol is compatible with all Lon installations, giving new products access to native IP.

The implementation of BACnet™/IP in IzoT™ PLCs allows to benefit from the best of both worlds: Lon for its ability to interact between field products (bindings) and BACnet™ for its simplicity of supervision without any gateway thus reducing engineering.

sharing the same twisted pair. Lon commissioning tools are reusable on the new generation of PLCs. Supervision can be done indifferently in Lon or in BACnet/IP without any gateway.

The Oxtopus IzoT™ is now becoming the most energy efficient and sustainable solution for new and refurbishment projects, not only for building, but also for any other IoT project.

Eco-design with IzoT™ technology

Futur-proof your Lon installations with the new generation of fully compatible IzoT™ products by