

Ethernet connectivity with the LSA & PIB

For basic integration testing, test campaigns, pilots and similar time limited efforts, Jomitek offer a preconfigured Ethernet switch, providing a simple way of establishing connectivity to, and powering the LSA. It is not suited nor intended for permanent installations.

The switch enables the creation of an isolated network between e.g. a phone, tablet or PC with the LSA.

The default configuration of an LSA requires a DHCP server (external assignment of IP address). A special version of DHCP server functionality is configured on the Ethernet PoE Switch (EPS), which ensures that the LSA will always be assigned the sensor IP stated on the label of the EPS.

Using a wired Ethernet connection, via the ETH1 port, or attaching to WiFi hosted by the EPS (see SSID and password details on the EPS label), the LSA can be accessed.

An example, using the LSA web server, would be to open a web browser, entering the <sensor IP address>, e.g. '192.168.88.130'. The LSA web page will then load.

Requirements when using the EPS

The Ethernet PoE Switch will by default require an AC power supply. An AC/DC transformer is included with the EPS. The switch itself requires an 8-57VDC supply. As such, an alternative battery-based power supply may be fitted, on request.

The LSA/PIB must be connected to the ETH2 port (PoE out).

A direct connection to the LSA is only supported in non-relay versions of the LSA. If a relay version is used, the EPS must be connected to the Ethernet Control port of the PIB, and in turn the Ethernet Sensor port must be connected to the LSA.

The EPS is IP20, rated, and must be treated as such. I.e. exposure to rain, high humidity etc. must be avoided.

When all physical connections are in place, the LSA web page will be reachable 1 minute after the EPS is powered.



The EPS (right hand side), connected to and powering a Power and Interface Box. Connection from PIB to LSA not shown.