



## HazPro™ Router

Certified for hazardous and explosive environments, the HazPro Router is a low power mesh network router that lets you set up reliable, self-healing mesh networks wherever you need. Equipped with a flameproof enclosure and an intrinsically safe antenna output, the HazPro Router has an IP66 rating and an extended operating temperature range, all encompassed in a compact design that is easy to set up and deploy.

Utilizing RF mesh network protocol, the HazPro Router is highly extensible and works with multiple 802.15.4 based protocols including but not limited to Zigbee, Bluetooth®, WirelessHART®, ISA 100, and Thread®. The HazPro Router is low maintenance and can be updated remotely with Over-the-Air (OTA) firmware updates.

Developed and manufactured in Singapore, the HazPro Router can be used in tandem with the HarshPro™ Router, or with the HarshPro™ Gateway for a complete mesh network solution.





### HazPro Router Specifications<sup>1</sup>

Size:	103mm (L) x 103mm (W) x 80mm (H)
Weight:	1.1 Kg
Enclosure:	Flameproof (ex 'd')
Cable Entry:	1 entry, $\varnothing$ 3/4inch F-NPT

### Environmental

Operating temperature:	-40°C to +85°C
Storage temperature:	-40°C to +85°C
Humidity:	5-95% RH (non-condensing)
Altitude:	Up to 15,000 ft
Ingress protection:	IP66

### Power

Options:	DC input
Input Voltage:	12V to 24V

<sup>1</sup> Specifications listed here may be subject to change



Input Current:	up to 25 mA
Power Consumption:	Approx. 140 mW

### Radio

Chipset:	Silicon Labs EFR32
Frequency:	2.4Ghz ISM
Transmit Power:	Up to 10 dBm
Link to Link Range:	Up to 90 meters (line of sight)
Protocol:	Zigbee, Bluetooth®, Thread® or Proprietary
Encryption:	AES128
Firmware Over-the-Air Updates	Yes

### Antenna

Type:	External omni-directional
Gain:	2 dBi
Connector:	N type male
Dimension:	55mm (H) x 22mm (D)

### Antenna Coupler

Antenna Side Connector:	N type female
Thread Connection:	¾" NPT
RF Output:	Intrinsically safe (ex 'ia')
Dimension:	94mm (H) x 35mm (D)

### Power Cable

AWG:	20 to 16 (0.5mm <sup>2</sup> - 1.5mm <sup>2</sup> )
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### Regulatory<sup>2</sup>

Hazardous Area Protection Method:	Flameproof (ex 'd') & intrinsic safety (ex 'ia')
Equipment Protection Level <sup>3</sup> :	Gb (zone 1), Db (zone 21)
Hazardous Area Certifications:	ATEX, IECEx

<sup>2</sup> Equipment pending certification

<sup>3</sup> Equipment supports Zone 0 operation. HazPro Link must be installed in Zone 1.



Country Type Approvals:

CE, FCC, RoHS3, REACH

### Mounting Options

Indoor/Outdoor

Wall mount  
Wall mount using wall/pole kit  
Pole mount  
Pole mount using wall/pole kit

