

Fibre optic repeater for TP/FT-10

LRW-102

- ⌘ LONWORKS®, TP/FT-10, 78 kbit/s
- ⌘ Distances up to 20 km
- ⌘ Multi-/single mode fibre
- ⌘ LC-connectors
- ⌘ Bus or redundant ring
- ⌘ Transparent repeater function
- ⌘ Optical signal regenerated
- ⌘ Alarm output indicating Fibre failure
- ⌘ 10 – 60 VDC supply
- ⌘ Easy to install
- ⌘ 35 mm DIN-rail housing



EN 61000-6-1
Residential Immunity

EN 61000-6-2
Industrial Immunity

EN 61000-6-3
Residential Emission

EN 61000-6-4
Industrial Emission

LONWORKS® to fibre optic link, multidrop and redundant ring applications. The LRW-102 is a fibre optic modem designed for multidrop and redundant ring applications.

It acts as a repeater between the two fibre optic links and as a converter between LONWORKS® networks and fibre optic link.

The LRW-102 offers an easy way to extend the distance between LONWORKS® 78 kbit/s TP/FT network segments using a fibre optic link.

The LRW-102 is designed for harsh industrial usage as well as road or railway installations meeting industrial level EMC specifications and having a wide operating temperature range.

Because of the repeater functionality it eliminates the problem of jitter and hence ensures reliable communications in all situations.

The units are well prepared for use in harsh industrial environments. Total galvanic isolation and transient protection are standard for all interfaces. The line interfaces are also equipped with extensive protection against over-currents and voltage suppression.

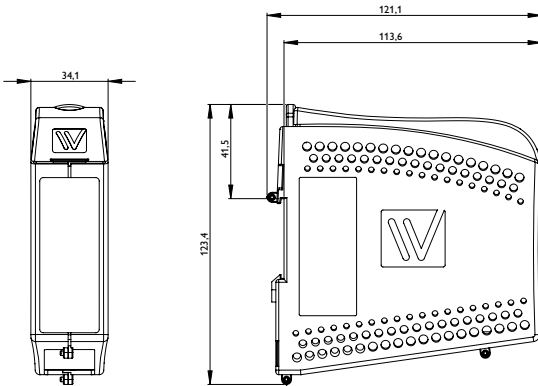
The DIN mounted case of the unit makes it easy to mount. The surrounding air temperature can be between –40 to 60°C. To allow for uninterrupted communication the units are designed with redundant power inputs that can be powered from two separate supplies and handle an operating voltage range of 10 – 60VDC.

Ordering Information

| Art.no | Description |
|-----------|-----------------|
| 3650-1101 | LRW-102-MM-LC2 |
| 3650-1110 | LRW-102-SM-LC15 |

Specifications LRW-102

Dimensional drawing



Dimension W x H x D 34 x 123 x 121 mm (1.33 x 4.84 x 4.76)

Weight 0.26 kg

Degree of protection IP21

Power

| | |
|-------------------|---|
| Operating voltage | 10 to 60 VDC 20 to 30 VAC |
| Rated current | 400 mA @ 12 VDC 200 mA @ 24 VDC 100 mA @ 48 VDC |

Interfaces

| | |
|------------|--|
| Status | 1 x 2-position detachable screw terminal |
| TP/FT-10 | 1 x 78.5 kbit/s |
| FX (Fibre) | 1 x SM-LC15 LC / MM-LC2 or 1 x Bi-di LC-20 / Bi-di MM LC-2 |

Temperature

| | |
|---------------------|-----------------------------|
| Operating | -40 to +60°C (-40 to 140°F) |
| Storage & Transport | -40 to +70°C (-40 to 158°F) |

Agency approvals and standards compliance

| | |
|--------|---|
| EMC | EN 61000-6-1, Immunity residential environments |
| | EN 61000-6-2, Immunity industrial environments |
| | EN 61000-6-3, Emission residential environments |
| | EN 61000-6-4, Emission industrial environments |
| Safety | EN 60950-1, IT equipment |