

# Fibre optic repeater for TP/FT-10

## LRW-102PP

- ⌘ LONWORKS®, TP/FT-10, 78 kbit/s
- ⌘ Distances up to 20 km
- ⌘ Multi-/single mode fibre
- ⌘ LC-connectors
- ⌘ Point to point
- ⌘ 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, point-to-point applications The LRW-102PP is a fibre optic modem designed for point-to-point fibre optic connections between LONWORKS® networks.

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

The LRW-102PP 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.

The unit also has a re-timing function that 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.

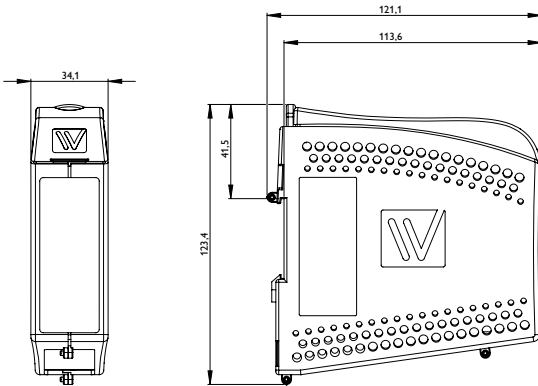
The DIN mounted case of the unit makes it easy to mount. The surrounding air temperature can be between –40 to 70°C. To allow for uninterrupted communication the units are designed with redundant power inputs that can be powered from two separate supplies and handle an operating voltage range of 10 – 60VDC..

### Ordering Information

Art.no	Description
3650-1001	LRW-102PP-MM-LC2
3650-1010	LRW-102PP-SM-LC15

# Specifications LRW-102PP

## 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