

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.

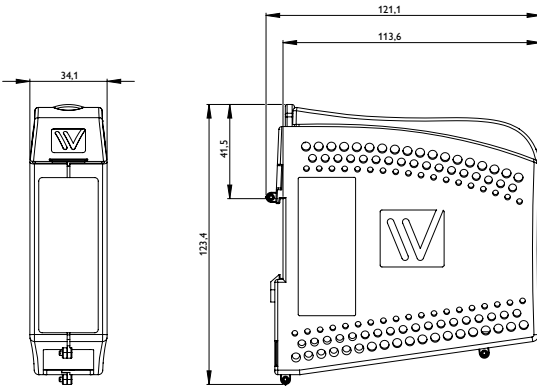
The DIN mounted case of the unit makes it easy to mount. The surrounding air temperature can be between –40 to 60°C. To allow for uninterrupted communication the units are designed with redundant power inputs that can be powered from two separate supplies and handle an operating voltage range of 10 –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