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IEC-4001/4002/4301

Industrial mini Media Converter 10/100Base-TX to 100Base-FX

Quick Installation Guide

Overview

LevelOne IEC-4001/4002/4301 is an industrial Fast Ethernet media converter with a rugged aluminium case which providing superb heat dissipation. This converter is designed to be mounted on an industrial standard DIN-rail, plus the clearly visible status LEDs provide simple monitoring of port link activity. It also features Link Fault Pass Through in order to alert remote location when link status changes.

High Reliability

All components are built to withstand harsh environment applications without compromise where humidity, temperature variation and even shock vibration are concerns, including Electric & Utility, Critical Infrastructure, Transportation and Surveillance Security. This device operates under -40 to 75 Celsius (-40 to 167 Fahrenheit) temperature.

Ultra-Compact

The ultra-compact converter has the smallest form-factor of any such device in the world, but still offers industrial levels of toughness. Housed in a rugged IP31 aluminium case with in-built surge and ESD protection, the device measures just 59mm by 49mm, with a height of 36mm.

Features

- 10/100BaseT to 100Base-FX
- Rugged aluminium case design in a ultra-compact form factor
- 18V-36VAC & 12V-60VDC with polarity protection
- Link Fault Pass through (LFP) function
- Supports switch and pure converter mode
- Surge & ESD protection
- Maximum noise & interference immunity
- -40°C to 75°C (-40°F to 167°F) operating temperature range
- DIN-Rail or panel mount installation

Package Contents

- Industrial mini Media Converter
- Quick Installation Guide
- DIN-rail & Panel mount kits

|	Model No.	Description
Industrial	IEC-4001	10/100 Industrial Media Converter, SC MM 2KM -40 to 75C
	IEC-4002	10/100 Industrial Media Converter, ST MM 2KM -40 to 75C
	IEC-4301	10/100 Industrial Media Converter, SC SM 30KM -40 to 75C

LED Status

LED	Status	Description
PWR	Steady	Power On
	Off	Power Off
LK/Act	Steady	Fibre link established
	Flashing	Transmitting or Receiving data
10/100Base-TX		
Green	Steady	Network connection established
	Flashing	Transmitting or Receiving data
Amber	Steady	100M speed is established
	Off	10M speed is established

Power Input
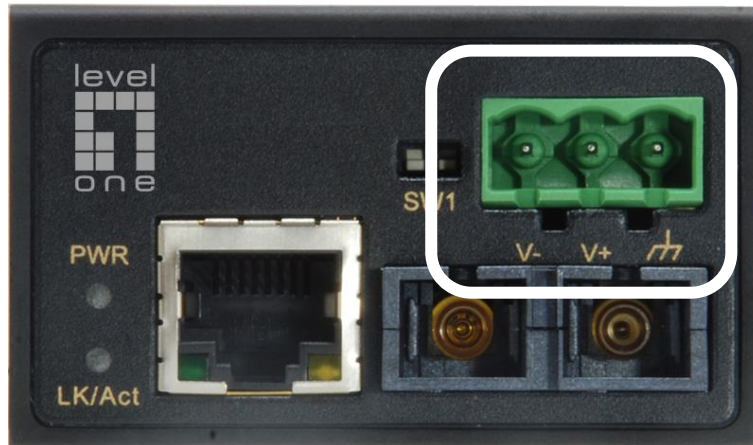
Terminal Block	V+	18 – 36VAC or 12 – 60VDC
	V–	Neutral Ground
	⏚	Earth Ground

Note:

This unit provides 3 pin terminal-block. And it can be operated using either VAC or VDC power source. The VDC power range is from 12VDC to 60VDC, and the VAC power range is from 18VAC to 36VAC. Always Make sure your input voltage is within this supported voltage range.

WARNING – any exceeded input voltage will not make this unit function and may damage this unit.

To make power connection – Follow the printed polarity for V+, V- and Ground. Connect positive wire to V+, connect negative wire to V-, and also connect neutral wire to ground.

DIP Switch

	DIP2	**DIP1**
ON	LFP enabled	Converter Mode
OFF	LFP disabled (default)	Switch Mode (default)

Note:

This unit is equipped with dip switches, located on the front panel marked as SW1. Adjusting the dip switches will change the default function of this unit. This unit has set to manufacturer default as: switch mode and LFP function off.

The table shown as you may change the dip switch setting to your desired environment.

DIN Rail Mount
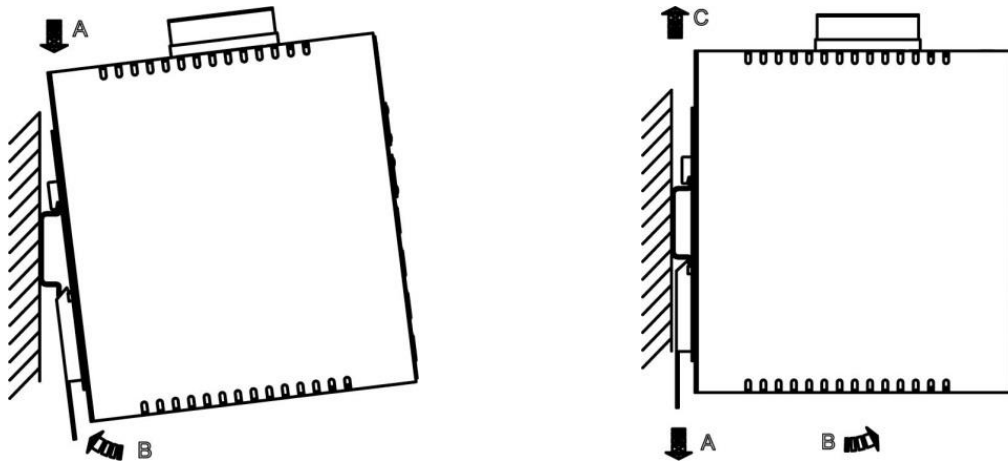
- Assembly: Place the switch on the DIN rail from above using the slot. Push the front of the switch toward the mounting surface until it audibly snaps into place
- Start-up: Connect the supply voltage to start up the switch via the terminal block (or DC JACK)
- Dismantling: Pull out the lower edge and then remove the switch from the DIN rail.

10/100Base-TX Connector
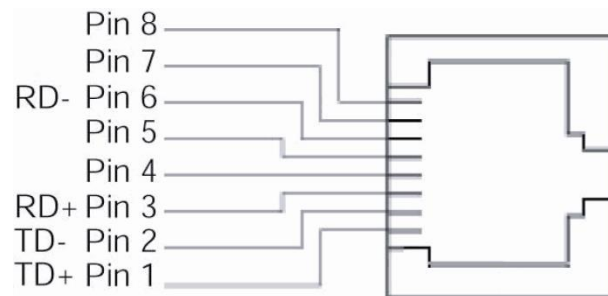
Pin	Standard Port	Uplink Port
1	Output Transmit Data +	Input Receive Data +
2	Output Transmit Data -	Input Receive Data -
3	Input Receive Data +	Output Transmit Data +
4	NC	NC
5	NC	NC
6	Input Receive Data -	Output Transmit Data -
7	NC	NC
8	NC	NC