

# OMEGALYNX® WIRELESS SENSOR LINK FOR 4-20 mA SIGNALS



**OMEGALYNX®**  
**\$995**  
Basic Unit

**Discontinued Product  
No Longer Available!**

## Features

- ✓ Wireless Connection for Four 4-20 mA/1-5 Vdc Signals
- ✓ OMEGALYNX® Wireless Technology, 2.4 GHz User License-Free Band
- ✓ Range: Up to 100 Meters (300 ft) Within Typical Factory Environments
- ✓ Plug-and-Play Compatibility with Existing Analog Data Acquisition Systems
- ✓ Simple Installation and Operation. No Setup or Programming
- ✓ Rugged Design for Industrial Environments

## Common Applications

- ✓ Moving Platforms: Cranes, Turntables, Conveyors, Rotating Kilns
- ✓ Temporary Installations: Problem Analysis
- ✓ Retrofit Installations

## Industries

- ✓ Process Control
- ✓ Oil Refineries
- ✓ Pulp and Paper Plants
- ✓ Power Generation and Distribution
- ✓ Water and Waste Water
- ✓ Food Processing
- ✓ HVAC



DIN Rail Mount

Shown actual size

OMEGA's OMEGALYNX® wireless products include 100 meter (328') range, Class I Bluetooth™ technology for industrial applications. The OMEGALYNX® is designed to replace cable and conduit that connect 4-20 mA sensors with the data processing or acquisition systems. The OMEGALYNX® transmitter collects analog signals from up to four 4-20 mA sensors and transmits the signals wirelessly to the OMEGALYNX® receiver wired to instrumentation, a PLC, DCS or other systems. OMEGALYNX® is built upon the Bluetooth™ technology platform, which utilizes a frequency

hopping spread spectrum technique within the 2.4 GHz ISM band to ensure a user license-free and secure communication. The OMEGALYNX® is offered as a transmitter/receiver pair and comes factory programmed, calibrated and tested as a set. No field programming is required. Each set is given a unique address so that multiple OMEGALYNX® sets can operate simultaneously in the same area without interference. The OMEGALYNX® can be used as modules or for installations with optional enclosure and external antenna accessories.

ACCESSORIES

To order by phone, call 1-800-82-66342  
1-800-TC-OMEGA

C-39A

or Shop Online at [omega.com](http://omega.com)®



# OMEGALYNX® WIRELESS SENSOR LINK FOR 4-20 mA SIGNALS

## SPECIFICATIONS

### WIRELESS TRANSMISSION

**Technology Platform:** Bluetooth™

**Modulation:** Frequency Hopping Spread Spectrum

**Radio Frequency:** 2.4 GHz license-free ISM band

**Communication Range:** 100 Meters (300') guaranteed range

**Output Power:** Bluetooth Class 1

**Number of Channels:** Four

### ELECTRICAL

**Power Requirements:** 24 Vdc (18 - 27.5 Vdc)

**Power Supply to 4-20 mA Sensor:**  
OML-TM: 24 Vdc  
OML-RM: n/a

**Data Resolution:** 16-bit

**Signal Bandwidth:** 10 Samples per second

**Input Signal (jumper configurable):**

OML-TM: Four 4-20 mA (250Ω input impedance)/  
1-5 Vdc (50KΩ input impedance)  
OML-RM: Radio Frequency Signal

**Output Signal:** OML-TM: Radio

**Frequency Signal:**  
OML-RM: 4-20 mA signal (Max 750Ω load)

**LED Indicators:**

Power - Green  
Data - Blue  
Comm Fail - Red

### ENVIRONMENTAL

**Operating Temperature:** 0 to 50°C (32 to 122°F)

**Humidity:** 5% to 90% non-condensing

**Enclosure Rating:** UL-3111-1 Compliant

### PHYSICAL

**Dimensions:** 14.7 H x 11.4 L x 4.3 cm W (5.8" x 4.5" x 1.7")

**Weight:** 0.37 kg (0.8 lb)

**Connector:** Screw Terminal

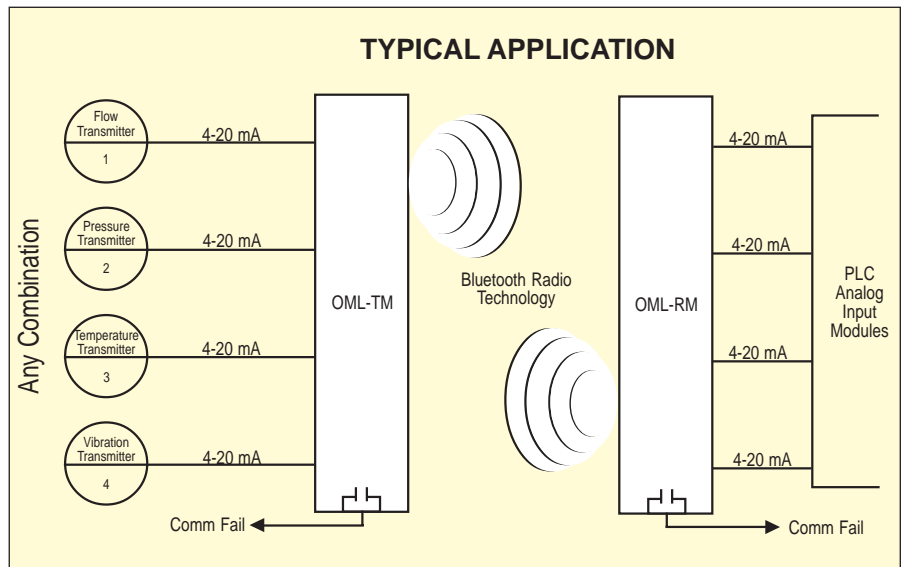
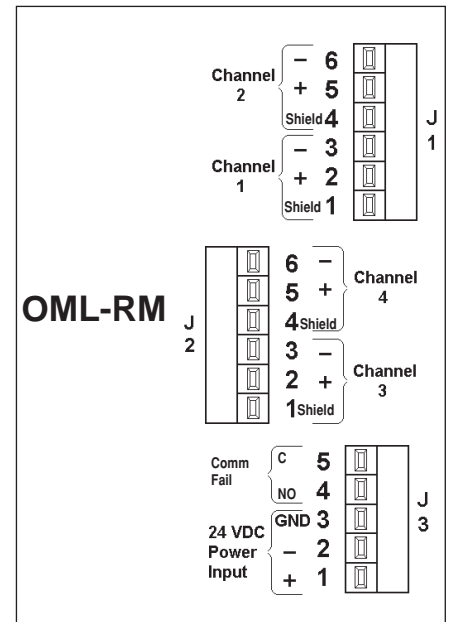
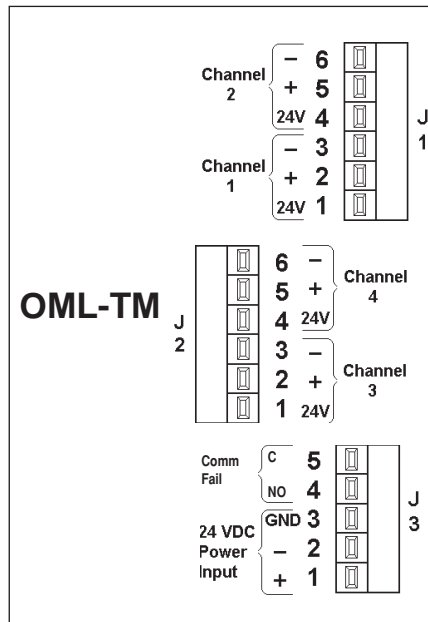
**Mounting:** DIN-Rail

**Certifications and Compliances:**

FCC Part 15 Approval  
CE (R&TTE)  
UL 3111-1  
CSA C22.2 1010.1  
Bluetooth™ RF Spec 1.1

Bluetooth™ is a trademark of the Bluetooth Consortium and Telefonaktiebolaget LM Ericsson Corp.

## Terminals



**MOST POPULAR MODELS HIGHLIGHTED!**

## To Order (Specify Model No.)

Model No.	Price	Description
<b>OML-TM</b>	<b>\$995</b>	OMEGALYNX® Wireless Transmitter Module
<b>OML-RM</b>	<b>995</b>	OMEGALYNX® Wireless Receiver Module
<b>OML-PSM<sup>†</sup></b>	<b>150</b>	OMEGALYNX® Power Supply Module 110/240Vac
<b>OML-AN</b>	<b>100</b>	OMEGALYNX® Remote Antenna with 2 m (6.6') cable
<b>OML-EN</b>	<b>220</b>	Nema 4X Enclosure with DIN Rail Foot

OML-TM and OML-RM each come with local detachable antenna and operator's manual.

<sup>†</sup>Each OML-TM and OML-RM requires its own power supply.

**Ordering Example:** OML-TM + OML-PSM + OML-RM + OML-PSM is a complete four channel telemetry system, \$995 + 150 + 995 + 150 = **\$2290.**

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C-39B

or Shop Online at **omega.com**

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