

LONG-DISTANCE RADIO TELEMETRY SYSTEM

WIRELESS TRANSMISSION OF SIGNALS UP TO 3.2 km (2 mi)

LDTX20 Series

Complete System
\$4180



LDRX20-M, receiver, \$2290, with LDTX20-S1, transmitter, \$1890, shown smaller than actual size.

NEW!
 Modular Receiver and Mainframes

- ✓ Wireless Sensor Interface
- ✓ Small Size, Light Weight
- ✓ Operates on UHF Band (User's License Required)
- ✓ Transmits Strain Gage, Voltage, and Thermocouple Signals Up to 3.2 km (2 mi) (Geography Dependent)

OMEGA's LDTX20 Series is ideal for applications in which long-distance wireless communication is required. The transmitters are powered by a 12 V internal supply

(chargeable) for continuous measurements. Their small size and light weight enable measurements without cumbersome transmitter installation. The LDRX20 receiver is also small and easy to use. It features a built-in speaker, 110 Vac operation, and front-panel zero and span adjustments. The receiver's antenna is conveniently packaged in a remote box, so it can be mounted near the receiver. The antenna assembly and the base receiver unit are attached with a BNC interface cable (included).



LONG-DISTANCE RADIO TELEMETRY SYSTEM

SPECIFICATIONS

SYSTEM (TRANSMITTER AND RECEIVER)

Accuracy: ±1% FS (includes temperature effects, linearity, hysteresis and repeatability)

Linearity: ±0.2% FS

Repeatability: ±0.05% FS

Bandwidth: 950 Hz max

LDRX20 RECEIVER

Power: 115/230 Vac

@ 50 to 400 Hz

Output: ±2 V

Display (Optional): 3½ digits

Output Ripple: 5 mV (filtered), 50 mV (wideband)

Zero and Span Adjustment: ±40%

TRANSMITTER MODULES

Power: Internal rechargeable battery pack

Modulation: FM-FM

Carrier Frequency: 450 to 470 MHz

Deviation: Up to ±5 kHz

Zero Temperature Effect: 0.05% FS/°C

Span Temperature Effect: 0.05% FS/°C

Transmitting Range:

Approximately 3.2 km (2 mi) max (geography dependent)

Operating Temperature Range: -30 to 50°C

(-22 to 122°F)

Excitation: 5 Vdc (models

LDTX-20S and LDTX-20E only)

Size:

175 L x 80 W x 58 mm H (6.88 x 3.14 x 2.28")

Weight: 0.68 kg (1.5 lb)

LDRX20-M, \$2290, shown smaller than actual size.



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODEL NO.	PRICE	INPUT RANGE	DESCRIPTION
MODULES			
LDTX20-S1	\$1890	0.3 mV/V	Strain gage transmitter
LDTX20-S2	1890	1.0 mV/V	Strain gage transmitter
LDTX20-S3	1890	2.0 mV/V	Strain gage transmitter
LDTX20-S4	1890	3.0 mV/V	Strain gage transmitter
LDTX20-E1	1890	0.1 V	Voltage transmitter
LDTX20-E2	1890	1 V	Voltage transmitter
LDTX20-E3	1890	5 V	Voltage transmitter
LDTX20-E4	1890	10 V	Voltage transmitter
LDTX20-J1	1890	-18 to 93°C (0 to 200°F)	Type J thermocouple transmitter
LDTX20-J2	1890	-18 to 204°C (0 to 400°F)	Type J thermocouple transmitter
LDTX20-J3	1890	-18 to 427°C (0 to 800°F)	Type J thermocouple transmitter
LDTX20-J4	1890	-18 to 538°C (0 to 1000 °F)	Type J thermocouple transmitter
LDTX20-K1	1890	-18 to 260°C (0 to 500°F)	Type K thermocouple transmitter
LDTX20-K2	1890	-18 to 538°C (0 to 1000°F)	Type K thermocouple transmitter
LDTX20-K3	1890	-18 to 816°C (0 to 1500°F)	Type K thermocouple transmitter
LDTX20-K4	1890	-18 to 1093°C (0 to 2000°F)	Type K thermocouple transmitter
RECEIVER			
MODEL NO.	PRICE	DESCRIPTION	
LDRX20-M	\$2290	Receiver for battery-powered transmitters with 3½ digit scalable display LED	
LDRX20-M4	1880	4-slot mainframe	
LDRX20-M8	2550	8-slot mainframe	
LDRX20-RM1	1575	Receiver module with LCD	

Comes with complete operator's manual.

Ordering Example: LDTX20-S4, 3.0 mV/V transmitter, LDRX20-M, receiver and display, \$1890 + 2290 = \$4180.

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
CM-4549	\$110	Reference Book: A Century of Excellence in Measurements, Standards, and Technology

ACCESSORIES



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters