



# LRP76

## Passive Reader/Writer

### Features

- Serial Reader/Writer with Integrated Antenna
- Menu Configurable RS232 and RS422
- Passive Tag Requires No Batteries
- NEMA 12 (IP65)
- 24-25VDC Operation

### Applications

- Material Handling
- Sortation Systems
- Work-in-Progress Monitoring
- Quality Control

### Use With

- LRP Series Tags
- CM11 / CM12 DeviceNet Modules
- CM21 InterBus-S Module
- CM30-Series Profibus Modules
- CM40-Series Modbus Plus Modules
- CM52 Remote I/O Module
- CM80-Series ControlNet Modules
- CM900 / CM1000
- CM1746 RFID Module
- Any RS232 and RS422 Host

**EMS**, a Datalogic Group Company, is the field-proven leader in the development and application of Radio Frequency Identification (RFID) Tags/Labels/PCBs, Antennas, Controllers and network interface modules for tough industrial environments. With over a dozen years of RFID successes in the automotive, electronics, material handling and food processing industries, EMS has built a global reputation in providing customers with complete supply chain solutions—from production to retail EMS has the complete solution!

The LRP76 Passive Reader/Writer is designed to provide cost effective RFID data collection to demanding material handling and automation applications.

The LRP76 Reader/Writer is compatible with Escort Memory Systems' Read/Write LRP Series Tags. These tags are extremely durable, low cost electronic identifiers that can be attached to any object, even in the harshest environments. The Read/Write Tags do not contain moving parts, and provide practically unlimited life with no maintenance requirements. In a typical application, the Read/

Write Tag is attached to a tote/pallet in a material handling process or product packaging in a distribution process. Once attached, the Tags allow the RFID Reader/Writer to identify the item at any point in the process.

The passive design of the LRP76 uses its RF field from the Reader/Writer to power the Tag, eliminating the need for batteries. The LRP76 Reader/Writer uses the internationally recognized ISM frequency of 13.56 MHz to both power the Tag and to establish radio link to transfer the data.

Error checking routines ensure that the Antenna even in environments of heavy RF interference correctly receives the Tag data. A bi-color (red/green) LED provides continuous operational feedback. The LRP76's small size, and high data transfer speed, combined with a versatile assortment of Tags, provides a powerful solution for any assembly, material handling, sortation or distribution application.

**LOW COST  
PASSIVE  
READER /  
WRITER**

## LRP76 Passive Reader/Writer

Electrical	Supply Voltage Current (Max)	23-25VDC 210mA@24VDC (5.0W)
RF Interface	Data Transfer Rate Built-In Antenna	Read – 1200 Bytes/Second Write – 500 Bytes/Second
Interface	Serial Host Interface Baud Rate	RS232/RS422 1200, 2400, 4800, 9600, 19200
Mechanical Specifications	Dimensions (W x H x D)	4.75 x 4.80 x 2.165in. (120.65 x 121.92 x 54.99mm)
Environment	Operating Temperature Storage Temperature Humidity Protection Class	-4° to 120°F (-20° to 49°C) -40° to 185°F (-40° to 85°C) 95% Non-Condensing NEMA 12 (IP65)

## LRP76 Passive Reader/Writer

### Typical & Guaranteed Read/Write Ranges

(inches/mm)\*

### Tags

	LRP-L90140	LRP-L4982	LRP-L5555	LRP-250HT	LRP250HT-FLX	LRP-L2666	LRP125(HT)
Typical Range (Z) (inches/mm)*	9.0/(228.6)	7.0/(177.8)	6.0(152.4)	6.0(152.4)	6.0(152.4)	4.5(114.3)	3.0(76.2)
Guaranteed Operating Range	7.2/(182.88)	5.6/(142.24)	4.8(121.92)	4.8(121.92)	4.8(121.92)	3.6(91.44)	2.4(60.96)

\* Proximity to metal, CRT devices and other sources of electromagnetic radiation may affect the range of the Antenna.

### Available Models

Model	Description
LRP76	Passive Reader/Writer

