



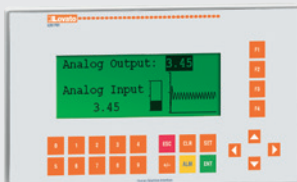
LRD10RA240



LRD20R...



LRE08R



LRXP01

Lovato's micro PLC is a compact, flexible, easy to use and highly cost effective "intelligent relay". Base units are available with 10,12 or 20 I/O points and can be expanded up to 44 digital I/O points with plug-in expansion modules.

Programming is simple and intuitive and can be done directly with the built-in keypad/display or by personal computer with LRX SW software and LRX C03 programming USB cable.

- Two common language logics are available for programming:
- LD (*relay ladder*) up to 300 lines of four instructions each
 - FBD (*function block diagram*) up to 260 programmable blocks

Advantages:

- System control and supervision
- Contact status viewing in simple and small screen display
 - Possibility to add the micro PLC to equipped with LREP00 Modbus to systems integrated on data networks by using Synergy (*supervision and energy management software*)

- Quick control board installation
- Fewer number of components
 - Less wiring with minor number of connections

- Repetitiveness
- Less errors during panel building
 - Considerable time saving

- Flexibility
- Quick correction of abnormal conditions at final testing
 - Fast changes on control boards

type	supply	inputs	outputs	description
Base units				
LRD10RA240	100 - 240 VAC	6	4	intelligent relay
LRD20RA240	100 - 240 VAC	12	8	intelligent relay
LRD12RD024	24 VDC	8*	4	intelligent relay
LRD20RD024	24 VDC	12*	8	intelligent relay
LRD20RD012	12 VDC	12*	8	intelligent relay
LRD20RD024P1❖	12 VDC	12*	8	intelligent relay

* 2/4 inputs can be analog (0-10 VDC)
❖ With built-in RS485 modbus port

Expansion modules (plug-in)

Inputs and outputs of the base relay unit can be increased with plug-in expansion modules. Up to three expansion modules, can be added.

LRE08RA240	100 - 240 VAC	4	4	expansion module
LRE08RD024	24 VDC	4	4	expansion module

Accessories

- LRXC03 cable: PC (USB) to LRD relay connecting cable (1.5 meter)
- LRXSW programming and supervision software (CD-ROM)
- LREP00 modbus - RTU protocol communication unit
- LRXM00 plug-in program back-up memory module
- LRXP01 HMI operator panel, 24 VDC, RS232, RS485
- LRXSWP01 LRXP01 editor software (CD-ROM)
- LRXC02 cable: PC (RS232) - LRXP01 programming cable

Maximum combinations

Base relay unit 12 inputs + 8 outputs

4 inputs + 4 outputs

4 inputs + 4 outputs

4 inputs + 4 outputs

4 PT100 temperature sensor inputs

2 outputs, 0...10V or 0...20mA

2 outputs, 0...10V or 0...20mA

4 inputs, 0...10V or 0...20mA

RS485 Modbus®-RTU

- 24 digital inputs (4 configurable as analog 0-10V input)
- 20 digital outputs (relay, transistor or mixed)
- 4 analog inputs for PT100 temperature sensors
- 4 analog outputs configurable as 0...10V or 0/4...20mA
- 4 analog inputs configurable as 0...10V or 0/4...20mA
- 1 RS485 slave communication module.

N.B. The sequence of the products given above must be respected for correct operation.