



Power supply 20.428.8VDC Operating voltage range 20.428.8VDC Avarage current consumption Max W Power consumption Max W Digital input Nr. Rated voltage V Rated voltage V Power of igital input Nr. Response time State 0 (OFF) 0 to 1 (OFF-ON) 4ms (0.5ms for high speed) 1 to 0 (ON-OFF) 4ms (0.3ms for high speed) 1 to 0 (ON-OFF) 4ms (0.3ms for high speed) Number of analog input Nr. 4 digital/analog Number of analog input Nr. 4 digital/analog Number of analog input type Voltage inputs Number of analog input type Voltage inputs Input signal range V 010 Resolution 0.01V 8	Product designation Product type designation Auxiliary supply voltage Number of inputs Number of outputs Max I/O number	Nr. Nr.	Training kit with LRD20RD024 mounted on input/output simulation board LRDDEM20RD024 24VDC 8 digital + 4 digital/analog 8 relay 20 (12 inputs + 8 outputs) up to 44 with LRE modules
Avarage current consumption mA 185 Power consumption Max W 5 Digital inputs Nr. 8 + 4 Number of digital input Nr. 8 + 4 Rated voltage V 24VDC Input signals State 0 (OFF) <5VDC			
Power consumption Max W 5 Digital inputs Nr. 8 + 4 digital/analog Number of digital input Nr. 8 + 4 digital/analog Rated voltage V 24VDC Input signals State 0 (OFF) State 1 (ON) <5VDC			
Digital inputs Nr. 8 + 4 digital/analog Rated voltage V 24VDC Input signals State 0 (OFF) <5VDC			
Number of digital inputNr. $8 + 4$ digital/analogRated voltageV24VDCInput signalsState 0 (OFF)<5VDC		W	5
Number of digital input Nr. digital/analog Rated voltage V 24VDC Input signals State 0 (OFF) <5VDC	Digital inputs		0 + 4
Input signals State 0 (OFF) <5VDC	Number of digital input	Nr.	
$\begin{tabular}{ c c c c c } \hline State 0 (OFF) & <5VDC \\ \hline State 1 (ON) & >15VDC \\ \hline Response time & & & & & & & & & & & & & & & & & & &$	Rated voltage	V	24VDC
State 1 (ON)>15VDCResponse time0 to 1 (OFF-ON)4ms (0.5ms for high speed) 4ms (0.3ms for high speed)Analog inputs1 to 0 (ON-OFF)4ms (0.3ms for high speed)Number of analog inputNr.4 digital/analogAnalog input typeVoltage inputsInputs signal rangeV010Resolution0.01VBit of conversionbit8Current consumption at10VDCmAInput impedancekQ>40Admissible overloadVDC28Sampling timems520ms(LADDER) (shielded wire)Maximum cable lenghtm / ft\$30m/98ft (shielded wire)Digital outputsNr.8			
Response time0 to 1 (OFF-ON)4ms (0.5ms for high speed) 4ms (0.3ms for high speed)Analog inputs1 to 0 (ON-OFF)4ms (0.3ms for high speed)Number of analog inputNr.4 digital/analogAnalog input typeVoltage inputsInputs signal rangeV010Resolution0.01VBit of conversionbitCurrent consumption at10VDCInput impedanceKQAdmissible overloadVDCSampling timemsSampling timemsDigital outputsm / ftSignal couputsSamulas (shielded wire)Digital outputsNr.Number of digital outputNr.		. ,	
$\begin{array}{ccc} 0 \ \mbox{to 1 (OFF-ON)} & 4ms (0.5ms \ \mbox{for} \\ high speed) & 4ms (0.3ms \ \mbox{for} \\ high speed) & 4ms (0.3ms$		1 (ON)	>15VDC
Analog inputs high speed) Number of analog input Nr. 4 digital/analog Analog input type Voltage inputs Inputs signal range V 010 Resolution 0.01V Bit of conversion bit 8 Current consumption at 10VDC mA Input impedance kΩ >40 Admissible overload VDC 28 Sampling time ms 520ms(LADDER) Maximum cable lenght m / ft ≤30m/98ft (shielded wire) Digital outputs Nr. 8		FF-ON)	high speed)
Number of analog inputNr.4 digital/analogAnalog input typeVoltage inputsInputs signal rangeVResolution0.01VBit of conversionbitCurrent consumption at10VDCInput impedancekQAdmissible overloadVDCSampling timemsMaximum cable lenghtm / ftDigital outputsSampling timeNumber of digital outputNr.Number of digital outputNr.	1 to 0 (OI	N-OFF)	
Analog input type Voltage inputs Inputs signal range V 010 Resolution 0.01V Bit of conversion bit 8 Current consumption at 10VDC mA <0.17mA	Analog inputs		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Nr.	
Resolution0.01VBit of conversionbitCurrent consumption at10VDCInput impedancek Ω Admissible overloadVDCSampling timemsMaximum cable lenghtm / ftDigital outputsNr.Number of digital outputNr.			
Bit of conversionbit8Current consumption at $10VDC$ mA<0.17mA		V	
$\begin{tabular}{ c c c c c } \hline Current consumption at & & & & & & & & & & & & & & & & & & $			
10VDCmA<0.17mAInput impedancekΩ>40Admissible overloadVDC28Sampling timems520ms(LADDER 210ms (FBD)Maximum cable lenghtm / ft\$30m/98ft (shielded wire)Digital outputsNr.8		bit	8
Admissible overloadVDC28Sampling timems520ms(LADDER 210ms (FBD)Maximum cable lenghtm / ft≤30m/98ft (shielded wire)Digital outputsNr.8	•	10VDC mA	<0.17mA
Sampling timems520ms(LADDER) 210ms (FBD)Maximum cable lenghtm / ft\$30m/98ft (shielded wire)Digital outputsNr.8	Input impedance	kΩ	>40
Sampling timeIns210ms (FBD)Maximum cable lenghtm / ft<30m/98ft (shielded wire)Digital outputsVr.8	Admissible overload	VDC	28
Maximum cable lenght m / ft (shielded wire) Digital outputs Nr. 8	Sampling time	ms	
Number of digital output Nr. 8	Maximum cable lenght	m / ft	
type Relay		Nr.	
	type		Relay

LRDDEM20RD024 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



ENERGY AND ACTOMATION

System resources				
				LCD display, 4
Display				lines x 16
				characters
Connections				
Terminals type				Screw
Tightening torque for te	erminals			
		max	Nm	0.6
		Max	lbft	0.4
Conductor section				
	AWG/Kcmil			
		min		26
		max		14
	IEC			
		min	mm²	0.14
		max	mm²	2.5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+55
	Storage temperature			
		min	°C	-40
		max	°C	+70
Relative humidity			%	2090% without
			70	condensation
Housing				
				35mm DIN rail or
Mounting				screw fixing
				(M4x20mm)
Degree of protection				IP20
Weight			g	1060
Certifications and com	pliance			
Compliance				
	CSA C22.2 n° 142			
	IEC/EN 61131-2			
	UL508			
Certificates				
	cULus			
	EAC			
ETIM classification				
ETIM 8.0				EC001417 -
0.0				Logic module