

Product designation	Remote alarm panel with LCD display and buzzer, built-in RS485, for up to 3 fire pump controllers, expandable with EXP... modules		
Product type designation	FFLRA400		
Auxiliary supply			
Rated auxil. supply voltage	100...240VAC		
Operating auxil. supply voltage range	90...264VAC		
Operating frequency range	Hz	47...63Hz	
Battery circuit	Battery rated voltage	VDC	12
	Charging voltage	VDC	13.6
	Battery type	"12V 2A Pb GEL or AGM Yuasa NP2.3-12, Fiamm FGV20201 or equivalent (battery not supplied with FFLRA400)"	
	Battery dimensions	mm	178 x 34 x 65
RA communication input	Input type	From specific RA output present on Lovato FFL...EP/DP controllers	
	Input voltage	VDC	12
	Input current	mA	≤8
	Cable type	Twisted-pair, min. cross section 0.5mm <sup>2</sup>	
	Max cable length	m	1000
Digital inputs			
Number of digital input	Nr.	6 (5 programmable)	
Digital input type	Negative		
Digital input current	mA	≤8	
High digital input signal	V	≥3.4	
Low digital input signal	V	≤2.2	
Digital input signal delay	ms	≥50	
Relay outputs			
Number of relay output	Nr.	3	
Mechanical endurance	10 <sup>7</sup>		
Electrical endurance	10 <sup>5</sup>		
Insulations			
Supply	Rated insulation voltage	VAC	250
	Type of insulation	Double	
	Power frequency withstand voltage	kV	3

## Connections

Type of terminal	Screw		
Conductor cross section	AWG/Kcmil		
	min	AWG	Supply: 12AWG RA input: 20AWG
	Max	AWG	Supply: 8AWG RA input: 10AWG
	IEC		
	min	mm <sup>2</sup>	Supply: 2.5mm <sup>2</sup> RA input: 0.2mm <sup>2</sup>
	Max	mm <sup>2</sup>	Supply: 16mm <sup>2</sup> RA input: 6mm <sup>2</sup>
Tightening torque for terminals	max	Nm	0.5
	max	lbin	4.4

## Ambient conditions

Temperature	Operating temperature		
	min	°C	-25
	max	°C	+50
	Storage temperature		
	min	°C	-30
	max	°C	+80
Relative humidity		%	<80% (IEC/EN 60068-2-78)

## Housing

Execution	Wall mounting		
Material	ABS		
Degree of protection	IP40		
Dimensions (W x H x D)	mm	220 x 287 x 187	
Weight	g	2460g (without battery)	

## ETIM classification

ETIM 8.0	EC002685 - Central fire alarm control panel		
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