




Accessories Field Installation

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Sensors and data logger arms for indoor applications

When M-Log is used in indoor applications, it can be mounted on an arm fixed on a tripod, together with a series of sensors.

	BVA320	Sensors and data logger arm. Fixing to BVA304 tripod or to wall	
		Dimensions	850x610x150 mm
		Number of sensors	N.6 using threaded screws + N.1 ring for ESU403.1-EST033 sensors
		Weight	0.5 kg
	BVA315	Sensors and N.2 data logger arm. Fixing to BVA304 tripod	
		Dimensions	400x20x6 mm
		Number of sensors	N.22 using threaded screws + support for N.4 ESU403.1-EST033 sensors
	BVA304	Three arm tripod	
		Occupied area size	Max 1100x1100 mm
		Maximum height	1600 mm
		Weight	1.6 kg
		Bag for transportation	Included

Shockproof case to contain data loggers in portable applications

For portable applications, data loggers can be mounted inside IP66 cases to be protected against shocks, water, dust and atmospheric agents. Inside the case can be also be housed the communication device.




	ELF432	Portable IP66 shockproof case. Complete with rechargeable battery (18 Ah) and power supply/battery charger (230 V AC/13.8 V DC)	
		Dimensions	520 x 430 x 210 mm
		Weight	12 kg
		Compatibility	E-Log, Alpha-Log

IP66 boxes for data logger fix installations

For fix outdoor installations, data loggers can be mounted inside IP66 enclosures that give protection against shocks, water, dust and atmospheric agents. Each box houses the relative power supply system as well as specific accessories, and has the predisposition to house the communication device that can be chosen from the list of Accessories. Each box can be equipped with a support for pole or wall fixing.




	ELF345	IP66 box. Complete with regulator for photovoltaic panels. Compatibility with 18 or 44 Ah batteries	
		Power supply	From solar panel using regulator
		Solar panel regulator	Included
		Dimensions	H 502 x L 406 x D 230 mm
		Weight	7 kg (battery excluded)
		Material	Fiberglass
		Compatible batteries (not included)	MG0558.R (18 Ah), MG0560.R (44 Ah)
	ELF345.1	IP66 box. Complete with regulator for photovoltaic panels and 85-264 V AC battery charger power supply. Compatibility with 18 or 44 Ah batteries.	
		Solar panel regulator	Included
		Power supply	85-264 V AC-> 13.8 V DC Thermal magnetic switch. Power: 50W
		Dimensions	H 502 x L 406 x D 230 mm
		Weight	17.5 kg (battery excluded)
		Material	Fiberglass
	ELF345.3	IP66 box for Alpha-Log connection to photovoltaic panels. Compatibility with 18 or 44 Ah batteries	
		Power supply	From solar panel using regulator inside Alpha-Log
		Dimensions	H 502 x L 406 x D 230 mm
		Weight	7 kg (battery excluded)
		Material	Fiberglass
		Compatible batteries (not included)	MG0558.R (18 Ah), MG0560.R (44 Ah)
	ELK340	IP66 box. Complete with 85-240 V AC-> 13.8 V DC power supply (30 W) and 2 Ah battery.	
		Power supply	85-240 V AC-> 13.8 V DC Thermal magnetic switch. Power: 30W
		Dimensions	H 445 mm x L 300 mm P 200 mm
		Weight	5 kg
		Material	Polyester
		Battery	2 Ah rechargeable, included
Compatibility	E-Log, Alpha-Log, ALIEM		

	<p>ELF340.10</p>	<p>IP66 box. Complete with 85-264 V AC-> 13.8 V DC power supply and 2 Ah battery and 230/24V transformer. With provision for installation of Relays for actuations (MG3023.R type) and IN-OUT terminal for analogue signals</p> <table border="1" data-bbox="576 376 1497 645"> <tr> <td>Power supply</td> <td>85-264 V AC-> 13.8 V DC 30 W 230V AC/24V AC 40VA Thermal magnetic</td> </tr> <tr> <td>Provision for Relays (not included)</td> <td>Up to N.5 Relays (MG3023.R type)</td> </tr> <tr> <td>IN-OUT signals terminal board</td> <td>Terminal for analog signals input N.7 IN signals N.7 OUT signals</td> </tr> </table>	Power supply	85-264 V AC-> 13.8 V DC 30 W 230V AC/24V AC 40VA Thermal magnetic	Provision for Relays (not included)	Up to N.5 Relays (MG3023.R type)	IN-OUT signals terminal board	Terminal for analog signals input N.7 IN signals N.7 OUT signals						
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	<p>ELF340.8</p>	<p>IP66 box. Complete with 85-264 V AC-> 13.8 V DC power supply and terminal board for up to N.3 RS485 signals. Compatibility with 18 or 44 Ah batteries. Used to receive digital signals</p> <table border="1" data-bbox="576 757 1497 1037"> <tr> <td>Power supply</td> <td>85-264 V AC-> 13.8 V DC 50 W Thermal magnetic</td> </tr> <tr> <td>Dimensions</td> <td>H 502 x L 406 x D 230 mm</td> </tr> <tr> <td>Weight</td> <td>7.5 kg</td> </tr> <tr> <td>Battery</td> <td>2Ah rechargeable, included</td> </tr> <tr> <td>Compatibility</td> <td>E-Log, Alpha-Log</td> </tr> </table>	Power supply	85-264 V AC-> 13.8 V DC 50 W Thermal magnetic	Dimensions	H 502 x L 406 x D 230 mm	Weight	7.5 kg	Battery	2Ah rechargeable, included	Compatibility	E-Log, Alpha-Log		
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	<p>ELK347</p>	<p>IP66 box. Complete with 85-240 V AC-> 13,8 V DC power supply, 2Ah battery and 85-260 V AC -> 24 V DC transformer for ALL IN ONE heated version sensors</p> <table border="1" data-bbox="576 1529 1497 1870"> <tr> <td>Power supply</td> <td>85-240 V AC -> 13,8 V DC 30 W</td> </tr> <tr> <td>Transformer</td> <td>85-260 V AC -> 24 V DC 150 W</td> </tr> <tr> <td>Dimensions</td> <td>H 445 mm x L 300 mm P 200 mm</td> </tr> <tr> <td>Weight</td> <td>5,5 kg</td> </tr> <tr> <td>Battery</td> <td>2 Ah rechargeable, included</td> </tr> <tr> <td>Compatibility</td> <td>Alpha-Log</td> </tr> </table>	Power supply	85-240 V AC -> 13,8 V DC 30 W	Transformer	85-260 V AC -> 24 V DC 150 W	Dimensions	H 445 mm x L 300 mm P 200 mm	Weight	5,5 kg	Battery	2 Ah rechargeable, included	Compatibility	Alpha-Log
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	DYA074	Support for ELF enclosures H 502 x L 406 x P160 mm to pole Ø 45...65 mm
	DYA072	Support for ELF enclosures H 502 x L 406 x P 160 mm to wall
	DYA148	Support for two ELF enclosures H 502 x L 406 x P160 mm to pole Ø 45...65 mm
	MAPFA2000	Support for ELK enclosures H 445 x L 300 P 200 mm to pole Ø 45...65 mm
	DYA081	Door lock for ELFxxx boxes
	MAPSA1201	Protection tile for ELFxxx boxes. Dimensions: 500 x 400 x 230 mm
	SVSKA1001	Fixing kit for A-Log in ELFxxx boxes when E-Log is already installed
	ELA110	Connection cable A-Log / E-Log (included in SVSKA1001 kit)
	DEA606	Serial adapter 9M/9M (included in SVSKA1001 kit)
	MAGFA1001	Cable gland for ELF340-340.7-345-345.1-345.3-344-347 box and RJ45/Eth cable


Carrying cases

To transport data loggers and their accessories, LSI LASTEM supplies the following cases.


	BWA314	Shockproof case, watertight (52x43x21 cm) for data loggers and probes Weight: 3.9 kg
	BWA319	Shockproof case with wheels, watertight (68x53x28 cm) for data loggers and probes Weight: 7 kg
	BWA047	Soft bag for data logger transport Weight: 0.8 kg
	BWA048	Bag to transport BVA304 tripod and stands Weight: 0.4 kg

Relay

Data logger versions with terminal inputs can switch external devices on/off via their digital outputs. The voltage available at the outputs corresponds to the supply voltage of the data logger (normally 12 V DC). In order to convert the output into a clean On/Off contact, LSI LASTEM provides relay suitable for mounting inside ELF boxes.

	MG3023.R	Relay for On-Off actuation of the digital output. DPDT type.																
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	MG3024.R	<table border="0"> <tr> <td>Maximum switching voltage contact</td> <td>400 V AC/DC</td> </tr> <tr> <td>Minimum switching voltage contact</td> <td>12 V (at 10 mA)</td> </tr> <tr> <td>Min. switching current contact</td> <td>10 mA (At 12 V)</td> </tr> <tr> <td>Limiting continuous current contact</td> <td>12 A</td> </tr> <tr> <td>Typical input current coil</td> <td>62.5 mA</td> </tr> <tr> <td>Coil voltage</td> <td>12 V DC</td> </tr> <tr> <td>Protective circuit</td> <td>Damping diode</td> </tr> <tr> <td>Operating voltage display</td> <td>Yellow LED</td> </tr> </table>	Maximum switching voltage contact	400 V AC/DC	Minimum switching voltage contact	12 V (at 10 mA)	Min. switching current contact	10 mA (At 12 V)	Limiting continuous current contact	12 A	Typical input current coil	62.5 mA	Coil voltage	12 V DC	Protective circuit	Damping diode	Operating voltage display	Yellow LED
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USB Drive

	XLA010	USB Pen drive 3.0 Industrial Grade, Flash type MLC	
		Capacity	8 Gb
		Power consumption	0.7 W
		Operative temperature	-40...85 °C
		Vibration	20 G @ 7...2000 Hz
		Shock	1500 G @ 0.5 ms
		MTBF	3 million hours

Data logger protections

	EDEPA1100	Protection unit (SPD) for power line, single phase 230 V.	
		Mounting	DIN bar
		Compatibility	Alpha-Log, E-Log
	EDEPA1101	Protection unit (SPD) for RS-485 communication line.	
		Mounting	DIN bar
		Compatibility	Alpha-Log, E-Log
	EDEPA1102	Protection unit (SPD) for Ethernet communication line.	
		Mounting	DIN bar
		Compatibility	Alpha-Log, G.Re.T.A.

Optical/acoustic signallers

	SDMSA0001	Optical/acoustic signaller for indoor use	
		Lens colour	Red
		Power supply	5...30 V DC
		Protection degree	IP23
		Operative temperature	-20...60 °C
	SDMSA0002	Optical/acoustic signaller for outdoor use with 8 SMT LED	
		Lens colour	Red
		Power supply	10...17 V AC/DC
		Protection degree	IP65
		Operative temperature	-20...55 °C