Accessories —Field Installation

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
	Weight	1.6 Kg
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 Vca/13.8 Vcc)	
	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)
		Compatibility	E-Log, Alpha-Log
	ELF345.1	IP66 box. Complete with regulator for photovoltaic panels and 85-264 Vca battery charger power supply. Compatibility with 18 or 44 Ah batteries.	
		Solar panel regulator	Included
		Power supply	85-264 Vca-> 13.8 Vcc Thermal magnetic switch. Power: 50W
		Dimensions	H 502 x L 406 x D 230 mm
		Weight	17.5kg (battery excluded)
		Material	Fiberglass
		Compatibility	E-Log, Alpha-Log
	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)
		Compatibility	Alpha-Log
	ELF340	IP66 box. Complete with 85-264 Vca-> 13.8 Vcc power supply (50 W) and 2 Ah battery. Compatibility with 18 or 44 Ah batteries	
		Power supply	85-264 Vca-> 13.8 Vcc Thermal magnetic switch. Power: 50W
		Dimensions	H 502 x L 406 x D 230 mm
		Weight	7 Kg
		Material	Fiberglass
		Battery	2Ah rechargeable, included
		Compatibility	E-Log, Alpha-Log

	ELF340.5	Same as ELF340, plus external connectors to use sensors with cables with connectors. To facilitate the connection of the sensors to the data logger • N.8 female connectors (7-pin) for analog signals • N.2 female connectors (4-pin) for pulse signals • N.1 female connector (7-pin) for power supply

	ELF340.10	IP66 box. Complete with 85-264 Vca-> 13.8 Vdc 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
		Power supply
		Provision for Relays (not included)
		IN-OUT signals terminal board

Power supply	85-264 Vac-> 13.8 Vdc 30W 230Vac/24Vac 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

	ELF340.8	IP66 box. Complete with 85-264 Vca-> 13.8 Vdc power supply and terminal board for up to N.3 RS485 signals. Compatibility with 18 or 44 Ah batteries. Used to receive digital signals

Power supply	85-264 Vca-> 13.8 Vdc 50W 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

	ELF344	IP66 box. Complete with 85-264 Vac-> 13.8 Vdc power supply, 2Ah battery and 230 Vac/24 Vac transformer for heated sensors

Power supply	85-264 Vac-> 13,8 Vdc 2A 30W
Transformer	230Vac/24Vac 4.1 A 100VA
Dimensions	H 502 x L 406 x D 230 mm
Weight	7.5 Kg
Battery	2Ah rechargeable, included
Compatibility	E-Log, Alpha-Log

	ELF347	IP66 box. Complete with 85-264 Vac-> 13.8 Vdc power supply, 2Ah battery and 85-266 Vac/24 Vdc transformer for ALL IN ONE heated version sensors

Power supply	85-264 Vac-> 13,8 Vdc 30W
Transformer	85-266Vac/24 Vdc 6.25 A150 W
Dimensions	H 502 x L 406 x D 230 mm
Weight	7,5 Kg
Battery	2Ah rechargeable, included
Compatibility	E-Log, Alpha-Log

	DYA074	Support for IP66 enclosures H 502 x L 406 x P160 mm to pole Ø 45...65 mm
	DYA072	Support for IP66 enclosures H 502 x L 406 x P 160 mm to wall
	DYA148	Support for two IP66 enclosures H 502 x L 406 x P160 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 Vcc). 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.	
		Maximum switching voltage contact	250 V AC/DC
		Minimum switching voltage contact	5 V (at 10 mA)
		Min. switching current contact	10 mA (At 5 V)
		Limiting continuous current contact	8 A
		Typical input current coil	33 mA
		Coil voltage	12 Vdc
		Protective circuit	Damping diode
		Operating voltage display	Yellow LED
	MG3024.R	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 Vdc
		Protective circuit	Damping diode
		Operating voltage display	Yellow LED

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	20G @7...2000Hz
	Shock	1500G @ 0.5ms
	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