

FLEXIBLE INPUTS, ADDITIONAL OUTPUTS, OPTIONAL CAN NODE, HIGH-ACCURACY, HIGH VOLTAGE SUPPORT

The FlexiMonitor is a multipurpose additional and optional CAN Node for Eltek Smartpack2 and Smartpack S based control systems. FlexiMonitor adds many advanced features like high-accuracy current measurements, symmetry and voltage measurements down to battery cell level, high voltage fuse sensing, more control/alarm outputs and additional temperature measurements and more to your Smartpack2 based control system.



FLEXIMONITOR

MULTIPURPOSE CAN NODE FOR ELTEK CONTROLLERS

Doc 242100.603.DS3 - v5

APPLICATIONS

TELECOM - MOBILE / WIRELESS / FIXED

- RADIO BASE STATIONS
- CELL SITES
- MICROWAVE

OFFSHORE AND PROCESS INDUSTRY

- SAFETY AND AUTOMATION SYSTEMS (SAS)

RAILWAY INFRASTRUCTURE

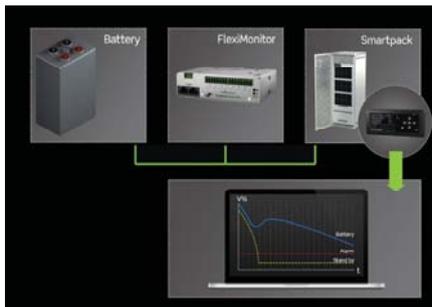
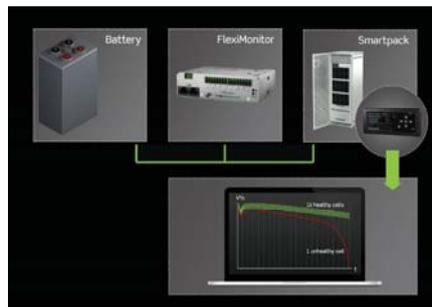
- CONTROL & PROTECTION
- SIGNALING

POWER UTILITIES

- CONTROL & PROTECTION

DATA CENTER

- BATTERY MONITORING



CELL VOLTAGE AND TEMPERATURE MONITORING

KEY FEATURES

- HIGH ACCURACY INPUTS FOR RECTIFIER, LOAD AND BATTERY CURRENT MEASUREMENTS
- INPUTS FOR TEMPERATURE PROBES
- VOLTAGE & SYMMETRY MEASUREMENTS ON BATTERY BANKS (WIDE RANGE 2V - 220V)
- HV & LV FUSE SENSE INPUTS
- PROGRAMMABLE DIGITAL INPUTS FOR ALARMING AND EVENT CONTROL
- SENSING OF 4-20MA SIGNALING
- TACHO (PULSE SENSE) INPUTS
- UP TO 14 UNITS CAN BE USED IN PARALLEL IN A CONTROL SYSTEM (TOTAL: 224 INPUTS)

MULTIPURPOSE CAN NODE FOR ELTEK CONTROLLERS

Model	CAN node
FlexiMonitor	242100.603/.607

INPUT DATA

Quantity	16 multipurpose
Voltage range (.603)	-280 Vdc to 280Vdc
Voltage range (.607)	0 Vdc to 280Vdc
Current shunt range	-100mV to 100 mV
Temperature range	-20 to +70°C

OUTPUT DATA

Quantity	16
Relay outputs (with relay extension)	4 or 8
Voltage rating (with relay extension)	0-220 Vdc
Current rating (with relay extension)	0,02-8,0 A

OTHER SPECIFICATIONS

Dimensions (LxWxH)	115 x 84 x 33,6 mm
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Model	CAN Node
Relay extension board	242100.604

OUTPUT DATA

Quantity	8
Voltage rating	0-220VDC, 0-240VAC
Current Rating	30V-2A
Current derating to	220V-0,02A

OTHER SPECIFICATIONS

Dimensions (LxWxH) incl. FlexiMon.	115x84x56,5 mm
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Model	CAN Node
Relay extension board	242100.605

OUTPUT DATA

Quantity	4
Voltage rating	0-220VDC, 0-240VAC
Current Rating	30V-8A
Current derating to	220V-0,1A

OTHER SPECIFICATIONS

Dimensions (LxWxH) incl. FlexiMon.	115x84x56,5 mm
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Model	CAN node
FlexiMonitor LED panel	242100.606

OUTPUT DATA

4 x Configurable push buttons	NO
16 x Configurable LED lamps	Red, Green, Blue, Yellow
Text templates	Customized
LED test	Push button

OTHER SPECIFICATIONS

Dimensions (LxWxH) incl. FlexiMon.	205 x 94 x 50 mm
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FLEXIMONITOR



RELAY EXTENSION BOARD WITH 4 OUTPUTS



RELAY EXTENSION BOARD WITH 8 OUTPUTS



FLEXIMONITOR LED PANEL



Specifications are subject to change without notice

MULTIPURPOSE CAN NODE FOR ELTEK CONTROLLERS

TECHNICAL SPECIFICATIONS

Model	FlexiMonitor	
Part number	242100.603	242100.607
INPUTS		
Quantity	16 per FlexiMonitor (up to 14 units in parallel in one control system)	
	Any input is configured in SW to act as voltage/symmetry, current shunt, fuse sense, temperature probe or tacho/pulse sense input	
Voltage Range	-280V _{DC} to +280V _{DC}	0V _{DC} to +280V _{DC}
Voltage Resolution	10mV _{DC}	10mV _{DC}
Current Shunt Range	-100mV to 100mV	
Current Shunt Resolution	4.0μV _{DC}	
Example: 200A – 60mV	13mA _{DC}	
Temperature Range	-20 to +70°C	-20 to +70°C
Temperature Accuracy	±6°C (0 to +40°C) ±8°C (-20 to 0°C and +40 to 70°C) (not recommended for battery management)	±2°C (0 to +40°C) ±4°C (-20 to 0°C and +40 to 70°C)
(Based on 470kΩ NTC probe)		
Tacho (pulse sense) Range	100 to 11000 ppm	
OUTPUTS		
Quantity	16 per FlexiMonitor (up to 14 units in parallel in one control system)	
Connection	Ribbon cable terminals or plug-in relay extension boards	
Maximum rating	10mA	
RELAY EXTENSION BOARDS		
Part number	242100.604	242100.605
Quantity	8	4
Voltage Rating	0-220V _{DC} (0-240V _{AC})	0-220V _{DC} (0-240V _{AC})
Current Rating	30V-2A derating to 220V-0.02A	30V-8A derating to 220V-0.1A
LED EXTENSION BOARD		
Part number	242100.606	
LED Lamps, quantity, type	1x Power ON lamp and 16x configurable, colour: Red, Green, Blue, Yellow	
Push Buttons, quantity, type	1x Lamp Test push button and 4x configurable, type NO	
Text Templates	Customizable	
MOUNTING		
DIN Rail clips	Part number: 282523	
Screw Hole (M4) clips	Part number: 282524 (vertical) or Part number: 315068 (horizontal)	
GENERAL SPECIFICATIONS		
Dimensions (LxWxH)	115 x 84 x 33.6 mm (4.53 x 3.31 x 1.32")	
Dimensions (LxWxH) with relay extension board	115 x 84 x 56.5 mm (4.53 x 3.31 x 2.22")	
Dimensions (LxWxH) with LED extension board	205 x 94 x 50 mm (8.07 x 3.7 x 1.97")	
Casing material	Aluminum alloy	
CAN Power consumption	Max. 200mA	
Temperature Range	Operating -20 to +70°C (-4 to 158°F)	
DESIGN STANDARDS		
Electrical safety	UL 60950-1, EN 60950-1	
EMC	ETSI EN 300 386 V.1.4.1 EN 61000-6-1 / -2 / -3 / -4 FCC Part 15 Subpart 109	
Environment	ETSI EN 300 019: 2-1 (Class 1.2), 2-2 (Class 2.3) & 2-3 (Class 3.2) RoHS (2011/65/EU) and WEEE (2002/96/EC) compliant	