

## 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 – v3

### APPLICATIONS

#### TELECOM – MOBILE / WIRELESS / FIXED

- RADIO BASE STATIONS
- CELL SITES
- MICROWAVE

#### OFFSHORE AND PROCESS INDUSTRY

- SAFETY AND AUTOMATION SYSTEMS (SAS)

#### RAILWAY INFRASTRUCTURE

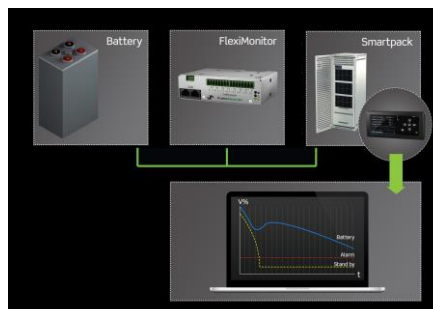
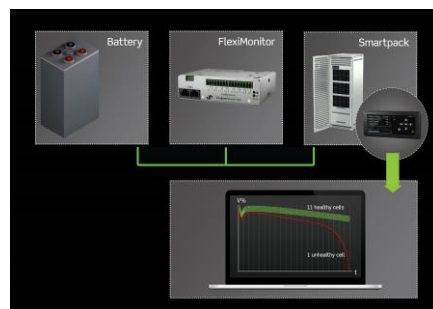
- CONTROL & PROTECTION
- SIGNALING

#### 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 ALARMS 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)

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## MULTIPURPOSE CAN NODE FOR ELTEK CONTROLLERS

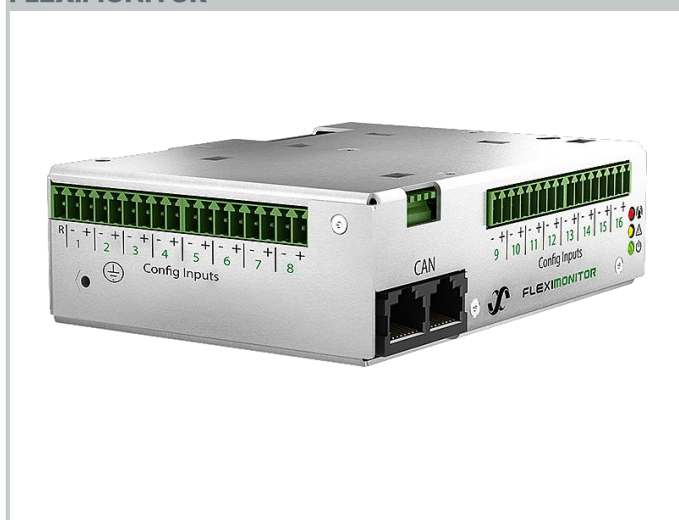
<b>Model</b>	CAN node
FlexiMonitor	242100.603
<b>INPUT DATA</b>	
Quantity	16 multipurpose
Voltage range	-280 Vdc to 280Vdc
Current shunt range	-100mV to 100 mV
Temperature range	-20 to +70°C
<b>OUTPUT DATA</b>	
Quantity	16
Relay outputs (with relay extension)	4 or 8
Voltage rating (with relay extension)	0-220 Vdc
Current rating (with relay extension)	0,02-8,0 A
<b>OTHER SPECIFICATIONS</b>	
Dimensions (LxWxH)	115 x 84 x 33,6 mm

<b>Model</b>	CAN Node
Relay extension board	242100.604
<b>OUTPUT DATA</b>	
Quantity	8
Voltage rating	0-220VDC, 0-240VAC
Current Rating	30V-2A
Current derating to	220V-0,02A
<b>OTHER SPECIFICATIONS</b>	
Dimensions (LxWxH) incl. FlexiMon.	115x84x56,5 mm

<b>Model</b>	CAN Node
Relay extension board	242100.605
<b>OUTPUT DATA</b>	
Quantity	4
Voltage rating	0-220VDC, 0-240VAC
Current Rating	30V-8A
Current derating to	220V-0,1A
<b>OTHER SPECIFICATIONS</b>	
Dimensions (LxWxH) incl. FlexiMon.	115x84x56,5 mm

<b>Model</b>	CAN node
FlexiMonitor LED panel	242100.606
<b>OUTPUT DATA</b>	
4 x Configurable push buttons	NO
16 x Configurable LED lamps	Red, Green, Blue, Yellow
Text templates	Customized
LED test	Push button
<b>OTHER SPECIFICATIONS</b>	
Dimensions (LxWxH) incl. FlexiMon.	205 x 94 x 50 mm

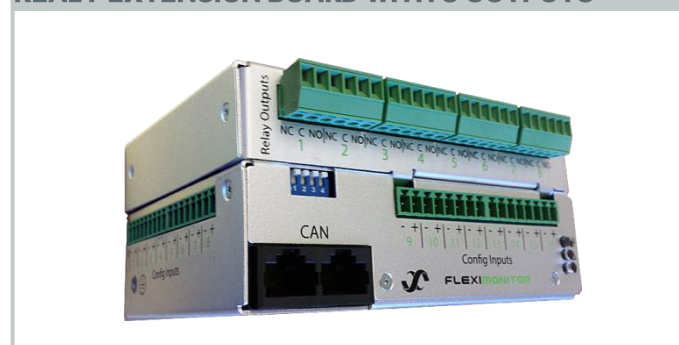
### FLEXIMONITOR



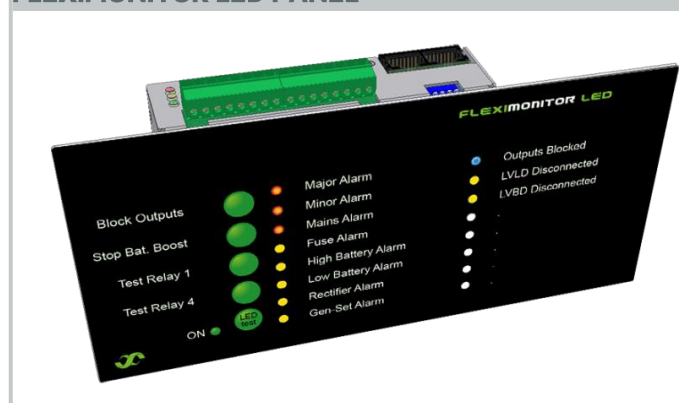
### RELAY EXTENSION BOARD WITH 4 OUTPUTS



### RELAY EXTENSION BOARD WITH 8 OUTPUTS



### FLEXIMONITOR LED PANEL



Specifications are subject to change without notice

### TECHNICAL SPECIFICATIONS

Model	FlexiMonitor	
Part number	242100.603	
<b>INPUTS</b>		
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 tach/pulse sense input	
Voltage Range	-280V <sub>DC</sub> to +280V <sub>DC</sub>	
Voltage Resolution	10mV <sub>DC</sub>	
Current Shunt Range	-100mV to 100mV	
Current Shunt Resolution	4.0μV <sub>DC</sub>	
Example: 200A – 60mV	13mA <sub>DC</sub>	
Temperature Range	-20 to +70°C	
Temperature Accuracy	±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	
<b>OUTPUTS</b>		
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	
<b>RELAY EXTENSION BOARDS</b>		
Part number	242100.604	242100.605
Quantity	8	4
Voltage Rating	0-220V <sub>DC</sub> (0-240V <sub>AC</sub> )	0-220V <sub>DC</sub> (0-240V <sub>AC</sub> )
Current Rating	30V-2A derating to 220V-0.02A	30V-8A derating to 220V-0.1A
<b>LED EXTENSION BOARD</b>		
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	
<b>MOUNTING</b>		
DIN Rail clips	Part number: 282523	
Screw Hole (M4) clips	Part number: 282524 (vertical) or Part number: 315068 (horizontal)	
<b>GENERAL SPECIFICATIONS</b>		
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 +75°C (-4 to 167°F)	
<b>DESIGN STANDARDS</b>		
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	