

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 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 – v1

APPLICATIONS

TELECOM – MOBILE / WIRELESS

- RADIO BASE STATIONS/ CELL SITES
- LTE / 4G / WIMAX
- DISTRIBUTED ANTENNA SYSTEMS
- BROADBAND

TELECOM – FIXED

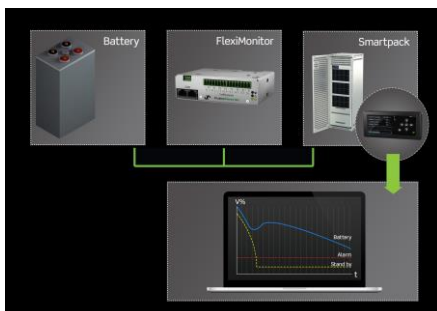
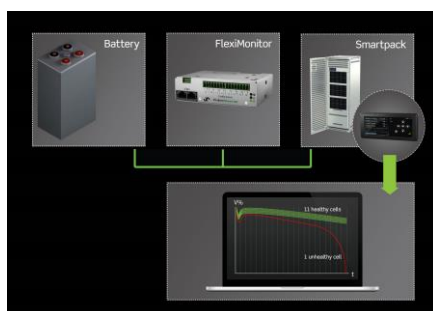
- FIBER OPTICS / FTTX
- MICROWAVE
- CABLE
- BROADBAND

OFFSHORE AND PROCESS INDUSTRY

- SAFETY AND AUTOMATION SYSTEMS (SAS)

RAILWAY INFRASTRUCTURE

- CONTROL & PROTECTION
- SIGNALING



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 – 110V)
- HV & LV FUSE SENSE INPUTS
- PROGRAMMABLE DIGITAL INPUTS FOR ALARMS AND EVENT CONTROL
- SENSING OF 4-20mA SIGNALING
- TACHO (PULSE SESE) INPUTS
- UP TO 14 UNITS CAN BE USED IN PARALLEL IN AN CONTROL SYSTEM (TOTAL: 244 INPUTS)

TECHNICAL SPECIFICATIONS		
Model	FlexiMonitor	
Part number	242100.603	
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 tachometer/pulse sense input	
Voltage Range	-280V _{DC} to +280V _{DC}	
Voltage Accuracy/Resolution	10mV _{DC}	
Current sense Range	-100mV to 100mV	
Current Accuracy/Resolution	3.7μV _{DC}	
Any shunt	13mA _{DC}	
Example: 200A – 60mV		
Temperature Range	-20 to +70°C	
Temperature Accuracy/Resolution	±1°C (-10 to +70°C)	
	±3°C (-20 to -10°C)	
(Based on 470kΩ NTC probe)		
Tacho (pulse sense) Range	60 to 11000 rpm	
Tacho (pulse sense) Accuracy/Resolution	6 rpm	
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
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")	
Casing material	Aluminum alloy	
CAN Power consumption	200mA	
Temperature Range	Operating -20 to +75°C (-4 to 167°F)	
DESIGN STANDARDS		
Electrical safety	UL 60950-1-3 rd edition, EN 60950-1-3 rd edition	
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 compliant	