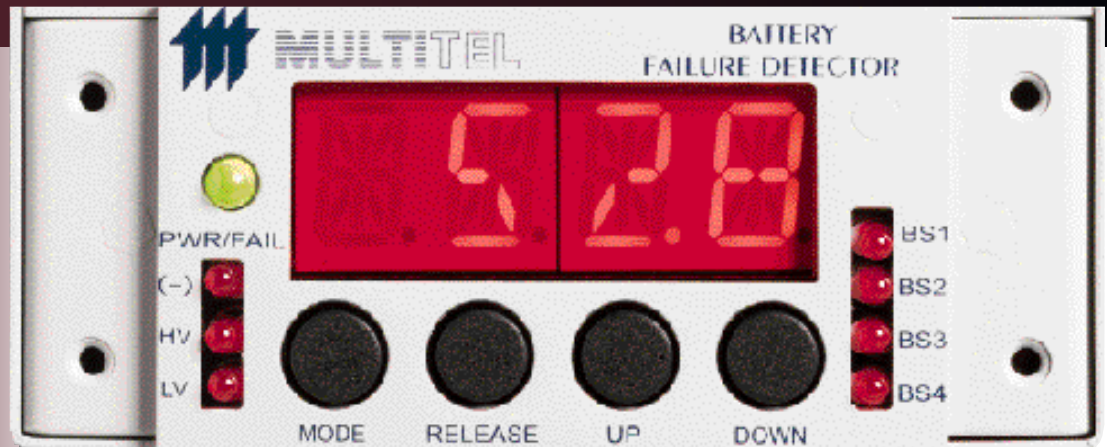


Battery Failure Detector



DESCRIPTION

The Battery Failure Detector increases the reliability of your telecommunication system by providing early warnings of VRLA (Valve Regulated Lead Acid) battery problems. Active surveillance of up to four (4) parallel battery strings during float, discharge and recharge modes ensures detection of conditions harmful to the battery system. Alarm conditions can be reported, permitting just-in-time dispatch of maintenance personnel.

FEATURES

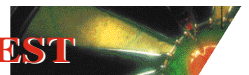
Handles up to four (4) VRLA battery strings.
Front panel LEDs indicate source of alarm.
Relay outputs compatible with all types of alarm collectors.

- Easy to install and configure
- Minimized engineering;
- Compact;
- Wall- or rack-mountable;
- Easy front panel operation.

BENEFITS

- Reduces maintenance costs;
- Simplifies maintenance by performing 24-hour surveillance;
- Helps identify the root cause of a problem;
- Helps efficient dispatch during critical AC outages;

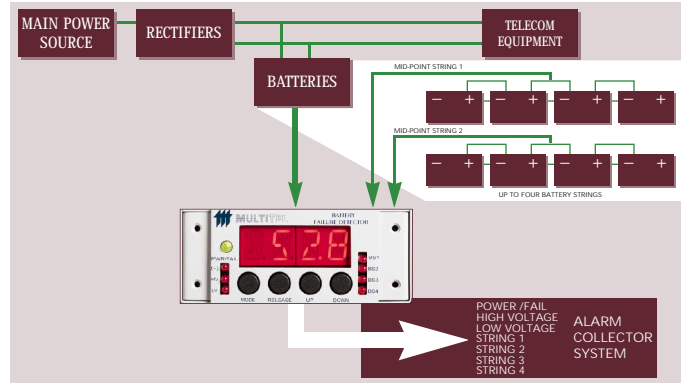
- Allows just-in-time battery replacement;
- Maximizes the efficiency of your maintenance personnel by eliminating useless and unprofitable visits;
- Permanent on-site digital voltmeter.



APPLICATION INFORMATION

The Battery Failure Detector will fit just about all VRLA parallel battery string applications such as: PBX, customer premises, cabinets, CEV, huts, cellular and PCS sites. The battery voltage and the mid-point voltage of every battery

string are monitored and compared to programmable thresholds. Alarm conditions are reflected to the output relays, which can be connected to the on-site alarm collection device.



SPECIFICATIONS

ELECTRICAL

Operating voltage (VDC)

MODEL	NOMINAL	MIN	MAX
BATTERY FAILURE DETECTOR 24	24	18	30
BATTERY FAILURE DETECTOR 48	48	36	60

Power consumption

MODEL	TYPICAL
BATTERY FAILURE DETECTOR 24	160 mA @ 24 V
BATTERY FAILURE DETECTOR 48	80 mA @ 48 V

Resolution Battery voltage: 0.1 VDC
 Unbalance voltage: 0.005 VDC
 Outputs Form A contacts (Normally Open),
 1 A @ 30 VDC

ENVIRONMENTAL

Temperature

Operation: 0°C to 50°C (32°F to 122°F)
 Storage: -40°C to 70°C (-40°F to 158°F)

Humidity

Operation: 5 to 90% R.H. (non-condensing)
 Storage: 5 to 95% R.H. (non-condensing)

MECHANICAL

Enclosure: Depth 16.6 cm (6.53")
 Width 10.6 cm (4.17")
 Height 4.3 cm (1.71")

ORDERING INFORMATION

PART NO.	DESCRIPTION	DETAILS
M-4193-24-G	Battery Failure Detector 24, wall mount	24VDC; wall-mount configuration; wall-mounting brackets; user manual
M-4193-24-G-R	Battery Failure Detector 24, rack mount	24VDC; user manual; rack mount configuration*
M-4193-48-G	Battery Failure Detector 48, wall mount	48VDC; wall-mount configuration; wall-mounting brackets; user manual
M-4193-48-G-R	Battery Failure Detector 48, rack mount	48VDC; user manual; rack mount configuration*
OPTIONAL ACCESSORIES		
C-4193	Battery Failure Detector cable harness	20 ft power and sensing leads and connector
K-EAR323-G	Universal rack-mounting fixture	3.5" x 19" or 23" rack mount support for 3 accessories

* The rack-mounting bracket must be ordered separately.

Telecommunication companies rely on their backup power systems to ensure continuous service during commercial power outages. If their backup power system fails at such a time, service is interrupted causing revenue losses and customer dissatisfaction. Standby batteries used as the main power backup supply are too often responsible for these downtimes. Over the past 18 years, MULTITEL surveillance and control systems have assisted telcos in their crusade for service quality and reliability. Our battery monitors, DC power plant and site management systems will help you achieve this important goal.



MULTITEL INC. reserves the right to change characteristics without notice.



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