

FLOAT CHARGING CURRENT PROBE

DESCRIPTION

Offering a simple and economical way to monitor VRLA Batteries, the C&D Powercom Division Float Charging Current Probe (FCCP™) combines quick access and a compact design in a probe that ensures early warning of possible catastrophic events. The FCCP™ allows you to monitor float charging current on up to two strings. And the non-intrusive sensor technology makes installation in new or existing applications fast and easy.

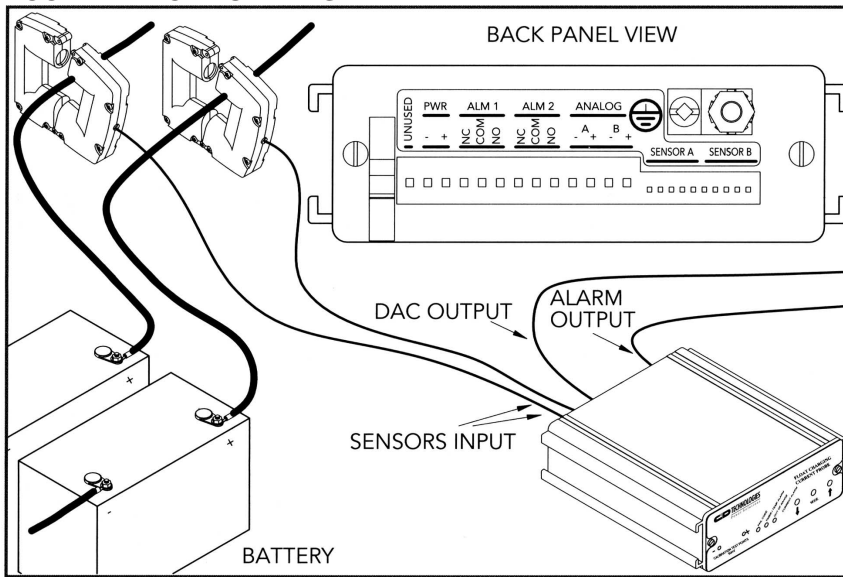
FEATURES

- Compact design allows fast and easy installs and connections.
- Non-intrusive sensor design allows you to maintain connections for ease of installation.
- Economical add-on to monitor float charging current for up to two (2) strings.
- Maximizes your power investment with a low cost, proactive tool that warns of thermal runaway conditions.



Condition	FCCP™ Output	Possible Causes
<ul style="list-style-type: none"> • High float charging current (precursor to catastrophic scenarios) 	<ul style="list-style-type: none"> • Summary alarm (engaged) • High float charging current alarm (engaged) • 50mV pins output actual float charging current • LED indicator 	<ul style="list-style-type: none"> • Excess water loss, lack of cell compression, high cell or ambient temperature, internal shorting, internal negative plate discharge, high charge voltage
<ul style="list-style-type: none"> • Low float charging current 	<ul style="list-style-type: none"> • Summary alarm (engaged) • 50mV pins output actual float charging current • LED indicator 	<ul style="list-style-type: none"> • Open string, poor terminal connections, low charge voltage, cold ambient temperatures
<ul style="list-style-type: none"> • High ambient temperature 	<ul style="list-style-type: none"> • Summary alarm (engaged) • 50mV pins output actual float charging current • LED indicator 	<ul style="list-style-type: none"> • High charge voltage, cell location (proximity to rectifiers and solar energy, or loss of air conditioning)

FCCP APPLICATION DIAGRAM



INPUTS AND OUTPUTS

(see diagram for connector location)

DC Power Input (PWR connector)

- Connects directly to DC power source

Alarm Outputs (ALARM connector)

- Form-C dry-contact relays (normally open)
- 1A @ 30Vdc and 0.5A @ 125Vac

Analog Outputs (DAC connector)

- Range of 0-50mV converted into 0-5A float charging current scale (1% precision)
- 100 Ω output impedance (compatible with any standard 50mV "shunt" input)

Float Charging Current Sensor Inputs (SENSORS connector)

- Single-sensor or double-sensor configuration available

ADDITIONAL FEATURES

- Easy sensor installation—simply slip sensor around conductor to be monitored WITHOUT opening the battery string
- User-adjustable Low and High current thresholds
- User-enabled "threshold temperature compensation" which allows normal changes in the float charging current associated with non-environmentally controlled cabinets
- User-adjustable 0-100 week maintenance timer
- User-enabled latching alarms

CERTIFICATIONS

- CSA and CSA-US
- CE Marking
- FCC, Part 15, Subpart B, Class B
- Designed and tested to comply with:
 - Bellcore GR-1089-CORE
 - Bellcore GR-0063-CORE

MECHANICAL SPECIFICATIONS

Control Unit

Depth: 4.88 in. (12.4 cm)

Width: 4.61 in. (11.7 cm)

Height: 1.50 in. (3.8 cm)

Sensor

Outside:

4.45 in. x 4.68 in. (11.3 cm x 11.9 cm)

Inside:

1.46 in. x 1.84 in. (3.7 cm x 4.67 cm)

Up to two 4/0 flex-conductors, one 535 MCM conductor or an applicable busbar configuration

ENVIRONMENTAL SPECIFICATIONS

Temperature

Operation and Storage:

-40°F to 149°F (-40°C to 65°C)

Humidity

Operation and Storage:

5 to 95% RH (non-condensing)

DESCRIPTION	PART#	OPERATING VOLTAGE		TYPICAL POWER CONSUMPTION	
		MIN (Vdc)	MAX (Vdc)	24 Vdc	48 Vdc
FCCP-1 STRING	MON00100	18	60	120mA	60mA
FCCP-2 STRING	MON00101	18	60	130mA	65mA
19" RACK MOUNT	RDO2436-19	N/A	N/A	N/A	N/A
23" RACK MOUNT	RDO2436-23	N/A	N/A	N/A	N/A
LIBERTY 2000 MOUNTING BRACKET	RDO2435x4	N/A	N/A	N/A	N/A

Find out how the FCCP™ can benefit your reserve power application. Contact a C&D Technologies' representative today.

POWERCOM DIVISION

1400 Union Meeting Road
P.O. Box 3053
Blue Bell, PA 19422-0858
(800) 543-8630 • Fax (215) 619-7887
email: powercom@cdtechno.com
www.cdtechno.com

C&D TECHNOLOGIES, INC.

Any data, descriptions or specifications presented herein are subject to revision by C&D Technologies, Inc. without notice. While such information is believed to be accurate as indicated herein, C&D Technologies, Inc. makes no warranty and hereby disclaims all warranties, express or implied, with regard to the accuracy or completeness of such information. Further, because the product(s) featured herein may be used under conditions beyond its control, C&D Technologies, Inc. hereby disclaims all warranties, either express or implied, concerning the fitness or suitability of such product(s) for any particular use or in any specific application or arising from any course of dealing or usage of trade. The user is solely responsible for determining the suitability of the product(s) featured herein for user's intended purpose and in user's specific application.