

Bare-Hand Live-Line Work Safety



Models 44 and 44B

Rugged, Dependable Design

Automatic Safety Check for
shorted or mis-wired test
cables

The BCM-44 and BCM-44B are state of the art current monitors designed for continuous operation during bare-hand work. The BCM has an adjustable set point (5 presets also available on BCM-44B) between 1 and 400 microamperes AC or DC. A 90-dB horn sounds an audible warning if this current set point is ever exceeded during use.

The BCM-44 and BCM-44B are extremely rugged and dependable current monitors. Designed for operation a variety of weather conditions, the BCM provides the security needed for bare-hand live-line work.



BCM 44B Installed on boom

The VON Corporation

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VON BCM Specifications

	BCM 44	BCM 44-B
Display Type	128 by 64 pixel wide temperature range LCD display. A microprocessor-controlled heater allows operation in extreme low temperatures.	
Ranges	Low Range: 0-99 microamps A.C. or D.C. with .1 μ A resolution. High Range: 0-500 microamps A.C. or D.C. with 1 μ A resolution.	
Voltage Drop	Less than 1 volt full scale	
Measurement System	True RMS within 1% of full scale	
Preset Alarm Setpoint(s)	Up to 6. Preset values are normally factory set to 27, 40, 66, 93, 133, and 289 microamps. Other preset values are available by request. The presets can be changed in the field as desired.	
Adjustable Alarm Setpoint(s)	Adjustable threshold can be set from 1 μ A to full scale by a front panel mounted 10-turn control.	
Set point Accuracy	Absolute	
Shorted Metering Circuit Monitor	Continuous	
Metering Circuit Continuity Monitor	Continuous	
Audible Alarm	Internal 106DB multi-tone horn sounds when current exceeds setpoint, or when measuring lead is accidentally grounded.	
External Alerting Device	A contact is provided to activate an external audible or visible alerting device. The output from this contact can provide either ground or switched input voltage.	
Power Requirements	12 or 24 volts D.C. negative ground. The monitor draws .04 amps steady state and .75 amps with the horn sounding. The display heater can draw up to .75 amps additional in extremely cold weather. 24 volt D.C. negative ground current draw is about half of the 12 volt current draw values.	
Enclosure	Precision die-cast aluminum case 4.72" (12cm) x 8.66" (22cm) x 3.14" (8cm) with external mounting brackets	
Weight	5 Lbs. (2.3kg)	
Environmental	-20° to +140°F (-30° to +60°C) Sealed to IP67 equivalent	
Input for test	UHF coaxial connector	7 pin Amphenol receptacle
Input for Power	Flange mounted 3 pin Amphenol receptacle	Flange mounted 3 pin Amphenol receptacle
Test Cable	25' (7.6m) shielded coaxial cable provided	4' (1.2m) shielded six conductor cable provided
Power Cable	4' (1.2m) three conductor cable provided	

Additional Features of the BCM 44B:

1. Metering of test circuit for boom metering bands
2. Metering of test circuit for hoses
3. Metering of test circuit for leveling rods or fiber optics
4. Total test including the sum of all three circuits
5. Band mis-wiring detection during power-up test.

Note: Daily use of this monitor does not eliminate the need to perform periodic over-voltage tests on aerial lift devices. The absolute minimum recommended over-voltage test should be a DC test of 2.1 times the line to ground exposure or an AC test of 1.5 times the line to ground exposure.

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