485N SPECIFICATIONS

RAN CURRENT	GE FOWER	RESOLUTION	ACCURACY (1 YEAR) 18*-28*C ±(%rdg + counts)*	ANALOG RISE TIME (10%-90%)	NORMAL MODE REJECTION RATIO (50 or 60Hz)*	MAXIMUM CONTINUOUS INPUT ²
2 nA	2 nW	.1pW	0.4 + 40	60ms	70dB	350Vdc
20 n.A	20 nW	1pW	0.4 + 10	60ms	70dB	350V dc
200 nA	200 nW	10pW	0.2 + 10	6ms	65dB	350Vdc
Aب 2	2 µW	100pW	0.15 + 10	3ma	65dB	350Vdc
Aب 20	20 µW	1nW	0.1 + 10	3ms	65dB	50Vdc
Aبر 200	200 uW	10nW	0.1 + 10	lms	65dB	50Vdc
2mA	2mW	100nW	0.1 + 10	1ms	55dB	50Vdc

When properly zeroed.; 0.1≤ responsivity ≤1.
 With no limiting resistance: 1000Vdc with external 100kQ series resistance.
 Referenced to a wavelength where 1mA of current = 1mW of light.

Internal Jumper Selected.

INPUT VOLTAGE BURDEN: Less than 200xV.

RANGING: Manual or autoranging.

AUTORANGING TIME: Average 250ms per range.

SETTLING TIME AT DISPLAY: Less than 600ms second to within 2 counts on fixed range.

CONVERSION PERIOD: Less than 170ms.

TEMPERATURE COEFFICIENT (0°-18°C & 28°-50°C): ±(0.1 × applicable accuracy specification) per °C.

MAXIMUM COMMON MODE VOLTAGE: 30V peak, DC to 60Hz sine wave.

ANALOG OUTPUT:

Output Voltage: +1V = -10,000 counts, except +100mV = -10,000 counts on 2nA range. Output Resistance: 10000.

FRONT PANEL CONTROLS

POWER: On and off.

UP RANGE: Selects manual range and while held, increments the range to the top range.

DOWN RANGE: Selects manual range and while held, decrements the range to the bottom range.

AUTORANGING: Selects manual or autoranging.

ATTENUATOR: Selects the probe with attenuator correction table to compensate for wavelength.

UP WAVELENGTH: While held, increments the wavelength in 10nm increments to the maximum wavelength. While held at the maximum wavelength, and the ATTENUATOR is off(on); the annunciator PROBE(ATTENUATOR) and the serial number of the PROBE(ATTENUATOR) are displayed.

DOWN WAVELENGTH: While held, decrements the wavelength in 10nm increments to the minimum wavelength. While held at the minimum wavelength, and the ATTENUATOR is off (on); the annunciator PROBE(ATTENUATOR) and the serial number of the PROBE(ATTENUATOR) are displayed.

λ SAVE: With the ATTENUATOR off (on), store the defalt PROBE(ATTENL'ATOR) wevelength.

LOG/LIN: Toggles between power and dBm.

$$(dBm = 10 \log \frac{P_{tx}}{1mW})$$

REF: When in dBm allows relative dB measurements to be made independent of NULL. Display annunciator is dB. When not in dBm allows ratio measurements to be made.

NULL: Allows zeroing of on range power readings.

Allows and an area dings to be made with respect to a baseline value. Display annunciator is REL.

ZERO CHECK: Used to adjust zero on the lowest range.

ZOOM IN: Increases bar graph sensitivity

ZOOM OUT: Decreases bar graph sensitivity

OFFSET: Establishes a new baseline for the bar graph

TIME CONSTANT: Selects SLOW, MED, or FAST response

GENERAL

DIGITAL LCD DISPLAY: 41/2 digit (0.44 in. height) for power and dBm; 3½ digit including trailing zero (0.28 in. height) for wavelength; polarity, Range, REL, ATTENUATOR, AUTO, dBm, ZERO CHECK, CAL, BAT, PROBE, RMT, and LLO

ANALOG LCD DISPLAY: 50 segment bar graph; selectable full scale of 25000, 12500, 5000, 2500, 1250, 500, 250, 125, 50, 25 or 5 digital display counts; TIME CONSTANT, FAST, MED, SLOW, and OFFSET annunciators.

OVERRANGE INDICATION: "OL" displayed.

CONNECTORS:

Input: BNC.

Analog Output: Banana Jacks

OPERATING ENVIRONMENT: 0°-50°C, less than 70% R.H. up to 35°C; linearly derate 3% R.H. I°C up to 50°C.

STORAGE ENVIRONMENT: -25° to +60°C.

POWER: 105-125V or 210-250V (switch selected), 90-110V available, 50-60Hz, 12VA. Optional 5-hour battery pack, Model 1758.

LINE FREQUENCY: 50-60Hz (internal jumper selected). DIMENSIONS:

Mother Board: 65mm high \times 190mm wide \times 260mm deep (2½ in. \times 7½ in. \times 10% in.)

Front Panel: 82mm high × 192mm wide × 38mm deep (3½ in. × 71/14 in. × 1½ in.)

4853N IEEE Interface: 29mm high × 190mm wide × 86mm deep (11/4 in. × 71/2 in. × 31/4 in.)

ACCESSORIES AVAILABLE:

Model 1758: Rechargeable Battery Pack

Model 4853N: IEEE-488 Interface

Model 7008-3: IEEE-488 Digital Cable (3 ft.)

Model 7008-6: IEEE-488 Digital Cable (6 ft.)

Model 8573: IEEE-488 Interface for IBM PC

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