195-26800 Meteorological Display

The **195-26800 Meteorological Display** offers a unique and flexible solution for meteorological data measurement, recording and display. Advanced design has features and flexibility to perform a wide variety of monitoring tasks. From simple display of a single variable to recording data from a complete sensor suite, the 26800 can satisfy countless measure-ment needs.

High Resolution Display: The 26800 features a large, high-contrast LCD screen. The display text and layout are fully programmable so measured data can be displayed in a wide variety of formats. Up to 8 screens may be used. Display illumination is easily adjusted for best viewing in any light.

Fully Programmable: The real strength of the 26800 is the ability of the user to custom program the device to perform virtually any task. A user-friendly PC program allows easy formatting of the program parameters, display screens and recording functions. Programming is also possible using front panel controls when a PC is unavailable.

Data Storage: The 26800 has built-in memory for storage of large amounts of recorded data. More than 2 million data points may be stored. Data retrieval is simplified by the handy communication program provided.

Wide Variety of Inputs: The 26800 is supplied with a large selection of sensor inputs. Wind, temperature, precipitation, humidity, and other sensors are easily connected through the back-panel terminals. Frequency, voltage, current-loop, and serial inputs are provided. All values are completely scalable in the program.

Useful Outputs: Many output options are available from the 26800. Terminals are available for calibrated voltage outputs and current outputs as well as serial outputs. Switched outputs provide alarm capability.

Practical Design: Compact configuration is easily panel mounted. Adjustable stand permits table top use as well.

Specifications

Dimensions: 200 mm (7.8 in) x 144 mm (5.7 in) x 54 mm (2.1 in)
Panel cutout: 194 mm (7.6 in) x 138 mm (5.4 in)
Weight: 0.8 kg (1.8 lb)
Operating temperature: 0° to 50° C
Storage temperature: -30° to 50° C
Display
Adjustable high-brightness, high-contrast with 8 user programmable screens. Large font capacity: 3 rows x 20 characters per screen. Small font capacity: 6 rows x 40 characters per screen. Both font sizes may be used together on the same screen.

Power
Nominal 12 Vdc at 250 mA with maximum backlight.
10 to 30 Vdc at 4 W max
Terminals or coaxial jack for included AC-power adapter
Memory
2,162,688 single-precision floating point values for data records.
256 temporary floating point values for user program
1 to 512 user program instructions
Voltage Input
Channels: 8 different or 16 single-ended inputs in any combination.
Measurement range: 4 Channels 0 to 5 Vdc, 12 Channels -2.5 to 5 Vdc
Resolution: 16 bit minimum.
Conversion rate: 6 Hz to 3.5 kHz in 10 steps.
50/60 Hz Rejection: Greater than 95 dB at 6 Hz sampling rate
Accuracy: 0.1% from 0° to 40° C
Pulse/Frequency Input
Channels: 4 Inputs. Each may be configured for Low Level AC or Switch Closure/TTL with built-in debounce.
Range: 0 to 2500 Hz
Threshold: 30 mVp-p for Low Level AC input. 2.5VDC for Switch Closure/TTL
Excitation
Channels: 2 outputs regulated 5Vdc at 10mA for potentiometer or RTD excitation
Voltage/Current Output
Channels: 4 outputs. Each channel may be configured as a voltage or current output.
Range: Voltage 0 to 5Vdc. Current 0 to 20mA
Resolution: 12-bits (1.25 mV or 0.005 mA)
Serial I/O
Channels: 2 ports. One for RS232, one for RS485. Both channels are full duplex with no handshaking, 1 start, 8 data, 1 stop, no parity.
Baud rate: 1200 to 230,400 baud
Switch Output
Channels: 4 solid state switch outputs
Voltage/Current: Each switch can handle 60Vdc at 5A. Switched line must be referenced to ground.

Ordering Information

195-26800   Meteorological Translator, 115V, 50-60 Hz
195-26800H   Meteorological Translator, 230V, 50-60 Hz
195-26880   Rack Mounting Panel (19")
195-00811   Custom Programming for 195-26800

26   *NovaLynx Corporation* PO Box 240 Grass Valley CA 95945
Phone: (530) 823-7185 Fax: (530) 823-8997 USA Toll Free: 1-800-321-3577

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