

*Fully Programmable
Display and Recorder*

Indicators
Translators



Model 26800
Meteorological Display



The Model 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 measurement 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.

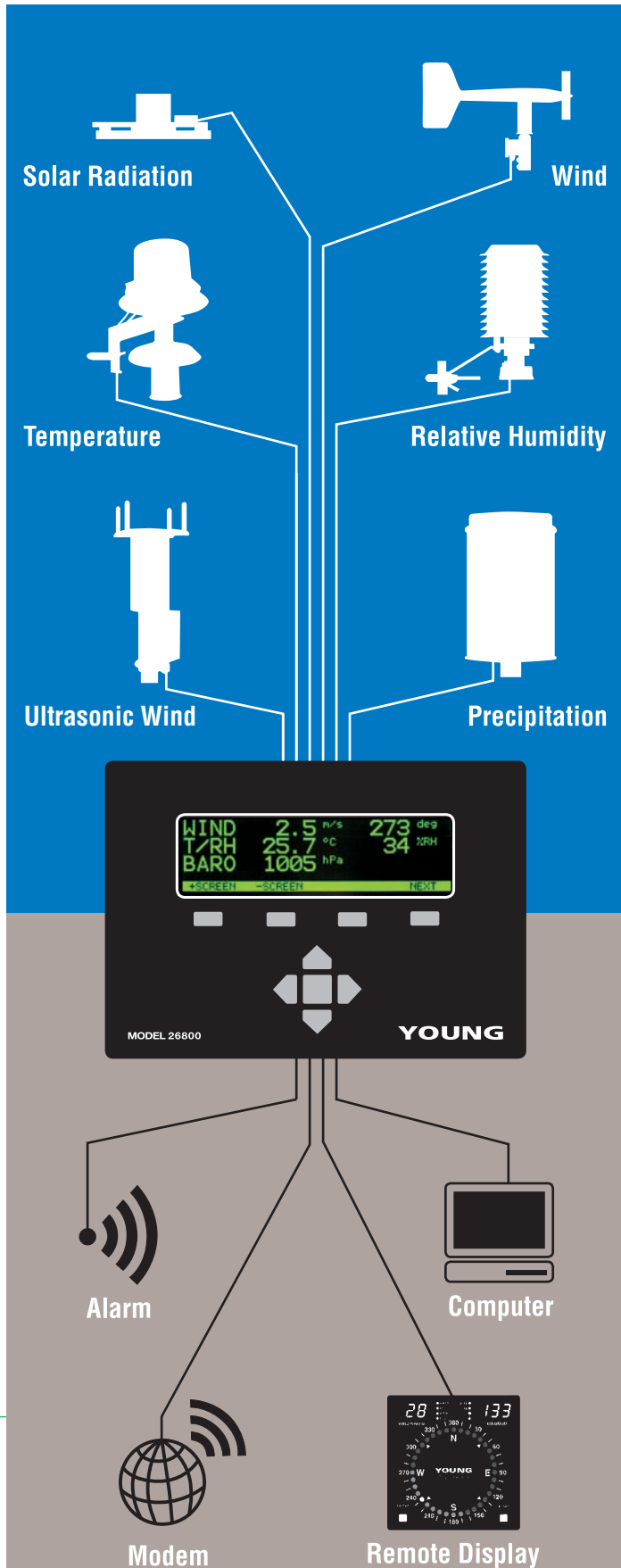
Useful Outputs

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.

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The 26800 is compatible with a wide variety of sensors and accessory devices. Terminals for all functions are readily-available on the back panel. Convenient, plug-in terminal blocks simplify wiring and service needs after installation.

Capabilities of the 26800 include the following:

Wind Speed and Direction Input

Conventional wind inputs such as frequency and analog voltage signals are accommodated. Potentiometer excitation is provided for direction sensors.

Temperature Inputs

Connections for temperature devices, including platinum RTDs and thermistors, are made through back panel terminals.

Voltage Inputs

Up to 16 voltage inputs are available allowing connection of humidity sensors, barometers, pyranometers and other devices. Many scaling options are available.

Current Inputs

4-20 mA current loop systems are no problem when long cable lengths or noisy industrial settings are present.

Voltage Outputs

High resolution voltage outputs allow operation of chart recorders and other external devices.

Alarm Outputs

Four low-level control outputs are provided to allow alarm actuation or relay control.

Serial Connections

Both RS 232 and RS485 connections are available allowing easy communication with PCs and other devices.

Specifications

Dimensions.....200 mm (7.8 in) x 144 mm (5.7 in) x 54 mm (2.1 in)
 Panel Cutout194 mm (7.6 in) x 138 mm (5.4 in)
 Weight.....0.8 kg (1.8 lb)
 Operating Temperature.....0° C to 50° C
 Storage Temperature.....-30° C 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



26800 Translator with PC setup program.

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 RS-232, one for RS-485. 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

MODEL

METEOROLOGICAL TRANSLATOR26800
 115V, 50-60 hz
 METEOROLOGICAL TRANSLATOR26800H
 230V, 50-60 hz
 RACK MOUNTING PANEL (19").....26880

 Complies with applicable CE directives.
 Specifications subject to change without notice.



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