

*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.

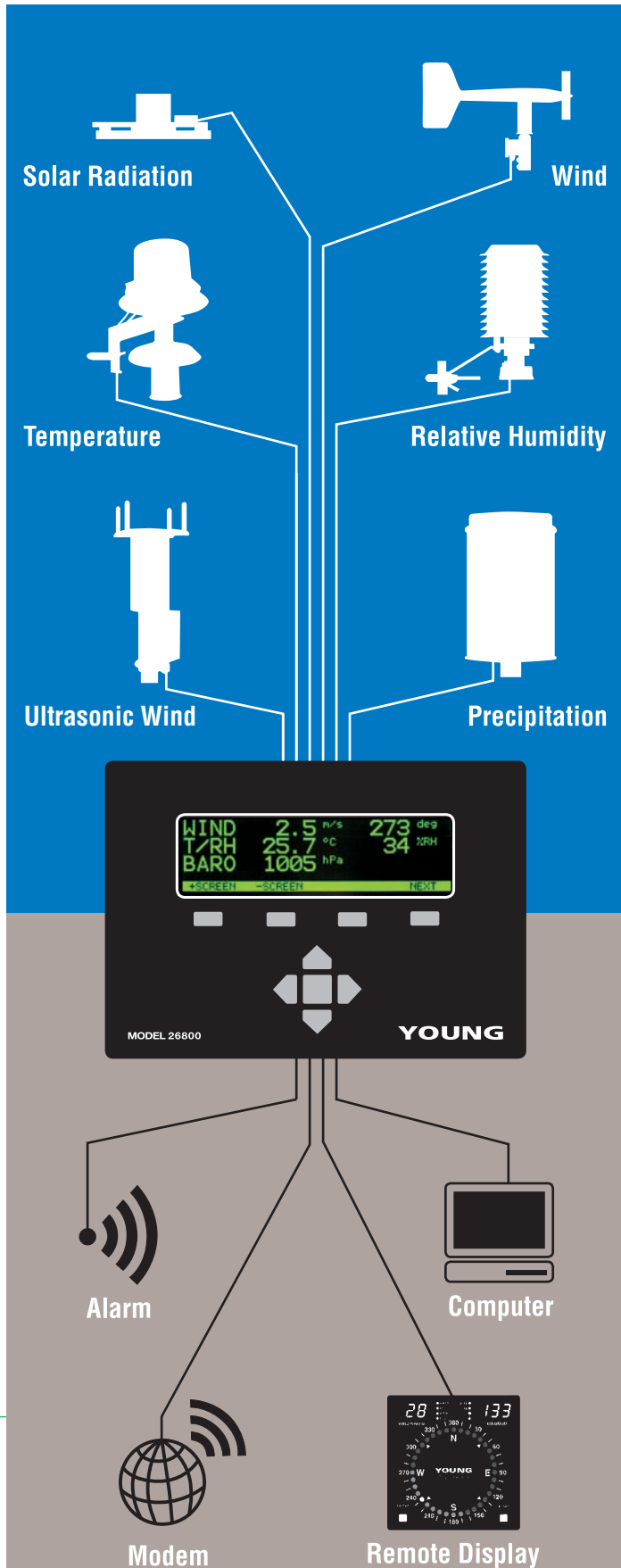
### **Useful Outputs**

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.

# Model 26800 Meteorological Display



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 Cutout .....194 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 TRANSLATOR .....26800  
 115V, 50-60 hz  
 METEOROLOGICAL TRANSLATOR .....26800H  
 230V, 50-60 hz  
 RACK MOUNTING PANEL (19").....26880

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



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