

*Programmable  
Versatility for  
Meteorological  
Measurements*



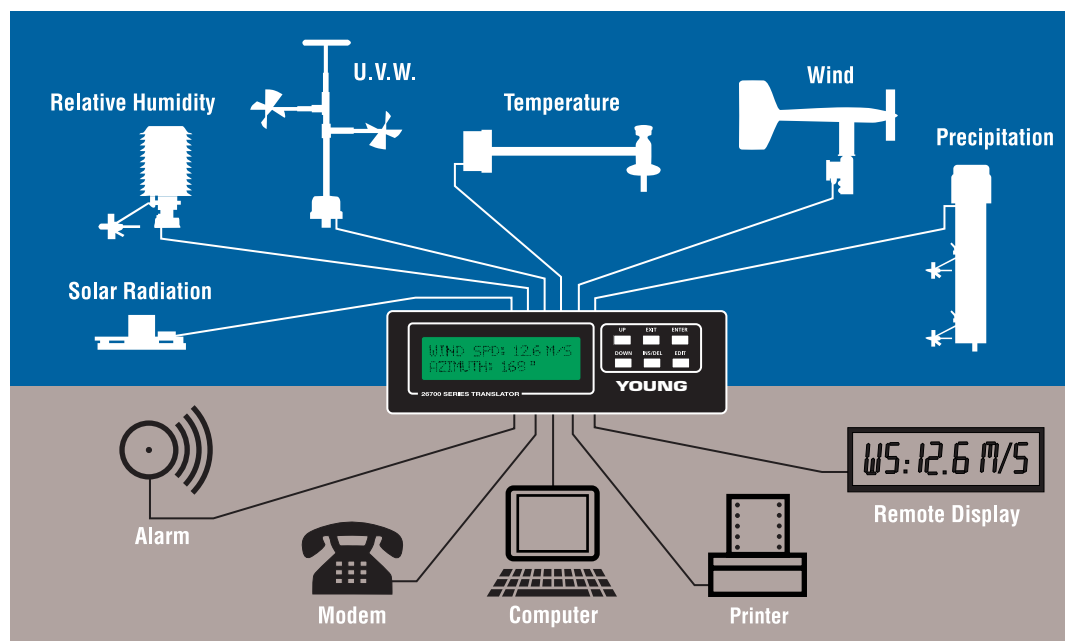
**26700 Series  
Programmable Translator**

***The YOUNG 26700 Series Programmable Translator offers a new level of capability in meteorological sensor monitoring.***

This microprocessor-based display and data collection device has the features and flexibility to perform many monitoring tasks. From simple display of one variable to multi-sensor datalogging and serial data transmission, the 26700 Programmable Translator can satisfy your measurement needs.

### **High Resolution Display**

The 26700 display is a high contrast, illuminated, alphanumeric L.C.D. Measured data can be displayed in any format that suits the application. Display text is easily customized using the front panel keypad; ten different screens are available.



▲ ***The 26700 Programmable Translator accepts from most meteorological sensors and interfaces directly with many peripheral devices.***

### **Data Storage**

Built-in memory lets you log up to 24000 data points in real time. Data can be retrieved at any time, communicated to another device such as a personal computer, or output on a dot matrix printer. These capabilities make the 26700 a perfect choice for many network systems.

### **Wide Selection of Inputs**

The 26700 translator accommodates up to 5 specially designed sensor interface modules.

Inputs for wind, temperature, precipitation, humidity, and other sensors are connected to the appropriate module and initialized by selecting a command with the front keypad. Programming is simplified by featuring many special functions such as average, standard deviation, maximum, minimum, sine and cosine, UVW corrections and others. The 26700 is compatible with all YOUNG sensors.

### **Special Output Functions**

Many output options are available for the 26700. The base unit has a standard RS-232 for serial communication via cable, modem or radio transmitter. Special modules are available for Voltage and Current outputs. The Alarm/Relay module provides 4 dry contact switches which can be programmed from the keypad. The Printer Interface module enables the 26700 to output directly to a conventional dot-matrix printer.

## **Modular Design Provides System Flexibility**

Each 26700 is interfaced to the sensors through specially designed sensor interface modules. These modules allow you to optimize performance with different sensor types. Modules are available for a wide variety of inputs and outputs to custom tailor your system. New modules can be installed at any time as requirements change.

### **Wind Speed/Direction Input**

This module accepts inputs from many wind sensors. The signal can be DC voltage or frequency pulse. Excitation voltage is supplied for potentiometer type direction sensors.



◀ *Sensors and accessories are connected to clearly marked terminals on the back of the unit. Many modules offer multiple channels.*

### **Temperature Input**

The Temperature Input module has inputs for two platinum RTD sensors. Inputs from 100 $\Omega$  or 1000 $\Omega$  sensors are accepted. Special compensating circuitry gives accurate measurement over a wide temperature range.

### **Voltage Input**

Perfect for relative humidity sensors, solar radiation sensors, and bi-directional propeller anemometers, the Voltage Input module offers four input channels. Each channel can be set to measure a DC voltage ranging from a few millivolts to  $\pm 5$  volts. Channels can be combined to measure differential voltages.



◀ *A variety of plug-in interface modules are available.*

### **Current Input**

For current loop systems, the Current Input module accepts an input signal in the range of 0 to 20 mA (typically 4 to 20 mA). This configuration is well suited for operation over long cable lengths or for industrial applications where electrical noise may be a problem.

### **Voltage and Current Outputs**

A variety of outputs are available to enable the 26700 to perform many important system functions. Each output module is easily configured using the front panel keypad and menus that appear on the display. The Voltage Output module has a high resolution voltage signal that allows operation of chart recorders and other external

devices. The Current Output module is useful in many industrial settings where a milliampere signal is desirable.

### **Alarm/Relay, Printer Interface**

The Alarm/Relay module features four dry-contact switches that can be set to activate a warning or initiate an action if specified conditions are met. The Printer Interface provides a convenient way to generate a hard copy record of data and program instructions using only a standard dot-matrix printer.

# YOUNG

## Specifications:

### 26700 SERIES PROGRAMMABLE TRANSLATOR

Dimensions: .....3.1 in (79 mm)H x 8.5 in (216 mm)W x 8.8 in (224 mm)D

Weight: .....2.8 lb (1.3 kg) base unit only, 2 lb (0.1 kg) each module

Construction: .....Aluminum case, thermoplastic front and back panels

Operating temperature: .....0°C to 50°C

Storage temperature: .....-30°C to 50°C

Display: .....2 lines x 16 character alpha-numeric LCD with backlight

Power requirement: .....7-30 VDC 8 W

(AC adapter supplied, UL & CSA listed)

Serial interface: .....RS-232, 9 pin, 300 to 9600 baud

Memory: .....24,000 data points, battery back-up

## Interface Modules:

### 26725 WIND SPEED/DIRECTION INPUT

Channels: .....3 input

Input Signal: .....0 to 5 VDC or 0 to 4 KHz\*

Excitation: .....5 VDC regulated for WD potentiometer

Accuracy: .....0.1 % (5 mV resolution)

### 26726 TEMPERATURE INPUT

Channels: .....2 (excitation provided)

Sensor Type: .....Platinum RTD, 100  $\Omega$  or 1000 $\Omega$

Accuracy: .....0.03 °C (0.01 °C resolution)

### 26727 VOLTAGE INPUT

Channels: .....4 single ended or 2 differential

Input Signal: ..... $\pm 50$  mV,  $\pm 500$  mV,  $\pm 5000$  mV\*

Excitation: .....5 VDC, 12 VDC regulated, supply

Accuracy: .....0.1 % (0.02 % resolution)

### 26728 VOLTAGE OUTPUT

Channels: .....4

Output Signal: ..... $\pm 5000$  mV\*

Accuracy: .....0.1 % (0.6 mV resolution)

### 26729 CURRENT OUTPUT

Channels: .....4

Signal: .....0 to 20 mA\*

Accuracy: .....0.1 % (0.001 mA resolution)

### 26730 ALARM/RELAY

Channels: .....4

Contact Rating: .....5 A resistive, 2 A inductive @ 250 VAC, 30 VDC

### 26731 PARALLEL PRINTER OUTPUT

Interface: .....standard parallel printer. Includes cable

### 26732 CURRENT INPUT

Channels: .....4

Input Signal: .....0 to 20 mA\*

Excitation: .....24 VDC unregulated

Circuit Accuracy: .....0.1 % (0.006 mA resolution)

\* User selected within stated range.



Complies with applicable CE directives.

Specifications subject to change without notice.



• The 26700 Translator functions equally well as a stand-alone display or as the heart of a sophisticated monitoring system.

## Ordering Information

MODEL	DESCRIPTION
26700	Programmable Translator, 115 V, 50-60 Hz
26700H	Programmable Translator, 230 V, 50-60 Hz, euro-style plug

### Input/Output Modules for 26700

26725	Wind Speed/Direction Input
26726	Temperature Input
26727	Voltage Input
26728	Voltage Output
26729	Current Output
26730	Alarm/Relay
26731	Printer Output
26732	Current Input

### Mounting Accessories

26770	Flush Mounting Bracket
26780	Rack Mounting Panel (19 in)



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