



TEXAS WEATHER INSTRUMENTS INC.

Manufacturer of Digital Weather Stations

5942 Abrams Road #113 Dallas, TX 75231(214) 368-7116 or (800) 284-0245

WPS

Weather Processing System

- Commercial Grade Equipment
- Non-Volatile Memory & Clock
- Fully Addressable by PC via the RS-232
- Logs Data to Memory
- Real Time Information Output:

Information in English or Metric
 Time & Date
 Wind Direction & Speed
 Outside Temperature
 Humidity
 Barometric Pressure (rising, falling)
 Daily & Monthly Rain
 Windchill Index, Heat Index & Dewpoint
 Daily Minimums and Maximums

SYSTEM INCLUDES:

WPS Console
 Wind Direction & Speed Sensor
 Barometric Pressure Sensor
 Temperature & Humidity Sensor in Pagoda
 Rain Collector
 Junction Box
 Serial Cable
 TWICal Software

SPECIFICATIONS:

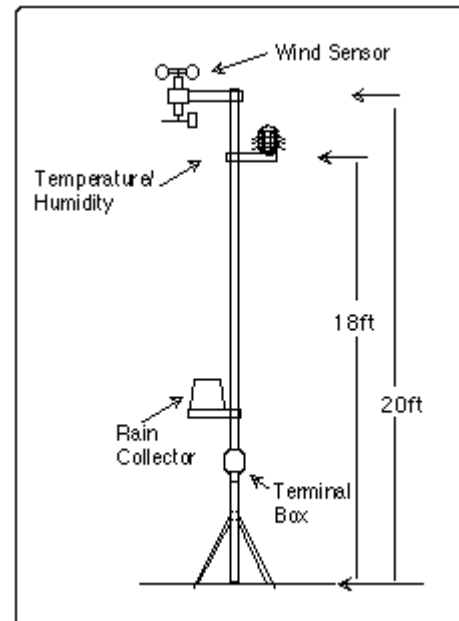
CONSOLE

Console Size: 8" wide x 3" high x 11" deep

Power: 11 to 16vdc 300 mA, normally through a 120VAC wall transformer

WIND

Sensor Assembly: 20" long x 13" high x 7" wide



Temperature range: -40 to +140 degrees F
 Wind direction: 16 points
 Wind speed: 1 to 199 mph $\pm 1\%$

BAROMETRIC PRESSURE

Sensor is built into console
 Pressure range: 27 to 34 inches Hg $\pm 2\%$
 Pressure resolution 0.01 inches Hg
 Pressure accuracy: $\pm .03$ @ 72 degrees F

HUMIDITY/TEMPERATURE

Humidity/Temperature Pagoda Size: 10" x 8" x 6"
 Temperature range: -40 to +140 degrees F, Resolution 1 degree
 Temperature accuracy: 2 degrees F
 Humidity range: 0 to 100% inches Hg
 Humidity accuracy: $\pm 3\%$ Resolution 1%

SOLAR SENSOR (Pyranometer)

Solar Sensor Size: 12.5" x 1.5" x 1"
 Spectral Response: 400-1100nm
 Sensitivity: Typically 60 μ A per 1000 Wm²
 Rise Time: 30ns
 Range: 0 to 1500 Wm²
 Output 0 to 150 Wm² x10
 Accuracy $\pm 10\%$ fso

LIGHTNING SENSOR

Lightning Sensor Size: 12" x 12" x 3"
 0 to 9999 counts, resolution 1 count

RAIN COLLECTOR

Rain Collector size: 9" x 7" x 7"
 Temperature Operating range: 32 degrees to +140 degrees F, Temperature Limits -40F^o to +140F^o.
 Resolution 0.01 inches Accuracy: $\pm 1\%$ @ 1" per hour

WPS - 10 2 K memory (aprx 30 lines)

WPS - 32 32 K memory (aprx 2000 lines)

WPS -128 128 K memory (aprx 8000 lines)

DATA SAMPLE (ASCII):

Time	Date	Direction	Speed	Aux	Indoor	Outdoor	Humidity	Pressure	Daily Rain	Monthly Rain	Rainfall Rate
15:00	07/24/90	ESE	03MPH	052F	069F	082F	090%	30.04R	00.01"D	01.20"M	00.00"R
15:30	07/24/90	SSE	02MPH	052F	068F	072F	089%	30.04R	00.19"D	01.38"M	00.00"R
MIN	07/24/90	ESE	00MPH	0052F	067F	067F	054%	30.00"	00.19"D	01.38"M	00.00"R
MAX	07/24/90	SSE	25MPH	052F	071F	092F	099%	30.06"	00.19"D	01.38"M	00.72"R

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