



Model 2100-301 Data Collection Platform



Operation

The Model 2100-301 Data Collection Platform (DCP) is a powerful data collection platform designed to provide the best value solution for your meteorological system needs. Quality, all weather connectors, are provided for each sensor on the lower surface of the DCP. Positions. The connectors on the underside of the enclosure provides additional environmental protection. The enclosure does not need to be opened to swap out sensors. Removing or adding a sensor in bad weather is no longer a problem.

The Model 2100-301 includes a built-in 3.4 amp hour rechargeable battery. The battery provides power during AC power outages ensuring continuous operation during periods of AC power outages. For sites where AC power may not be readily available the optional solar power kit may be used to power the DCP.

Weather data can be averaged over user specified intervals. Serial output data is available in both OSi and ALOHA formats.

Sensor configuration is easily done in the field or office. Simply plug a laptop computer into

Model 2100-301 Advantages

- Small size
- High performance
- Low Power
- Easily interfaced to OSi sensors
- Best Value

the data port and configure the system.

Data may be displayed on the optional handheld terminal or a PC with Hyper Terminal or other terminal emulation software. OSi Windows Display Software is also available.

Ordering Information:

- DCP 2100-301
- DCP Mounting Kit
- HHT
- Power Supply, 110 VAC
- Power Supply, 220 VAC
- Solar Power Kit

Software

- OSi View

Optional Sensors

- WIVIS OWI-430
- Wind Sensor 2100-130
- Temp Rh Probe 2100-110
- Pressure 2100-101-1
- Pressure 2100-101-2
- Rain Gauge 2100-120
- Solar Radiation

Model 2100-301 Data Collection Platform

Technical Specification	
Processor Functions	
Configuration parameters:	Stored in non-volatile EEPROM
Data Memory	256 or 512 Kbytes
Calendar Clock	Date, time, leap year, accuracy +30 sec/month
Local Display	Hand-held display or laptop computer

Communication Ports	
Data and Maintenance Port	RS-232 with external weatherproof connector for real-time data access and off-loading data memory
DSP-WIVIS	RS-232 with external weatherproof connector for interface to DSP-WIVIS


Sensor Interface	
DSP-WIVIS	RS232 Port
Wind Sensor	Frequency (wind speed), Potentiometer (wind direction)
Pressure	Analog voltage
Rain Gauge	Momentary switch closure
Solar Radiation Sensor	Analog voltage

Power Requirements	
Input Voltage	+ 7 to 40 VDC
Operating Current	<55 mA @ 12VDC
Standby Current	<0.5 mA @ 12 VDC
Input protection	Dual fuse surge protection, reverse polarity, and over-voltage
Supply sources	Battery, solar power, unregulated DC, and regulated DC

Environmental Specification	
Temperature Range	-50 to 85° C
Humidity	0 to 100% RH
Enclosure	NEMA 4X

Physical Specification	
Dimensions	
Weight	3.5 lbs

Specifications are subject to change without notice.

	<p>205 Perry Parkway, Suite 14 Gaithersburg, MD 20877 USA Ph. 301-963-3630 Fax 301-948-4674 website: www.opticalscientific.com email: sales@opticalscientific.com</p>
---	--

For the world's best performing and most reliable meteorological instruments, please contact OSi today!

