

WEATHER MONITORING SYSTEM



FROM TEAM DRS



- **PLUG & PLAY**
- **ALL INFORMATION ON DASHBOARD**
- **UPTO 100 INVERTER MONITORED**
- **PR MANAGEMENT**
- **EFFECTIVE O&M TOOL**



Another innovation from Team DRS, Weather Monitoring Solutions from DRS. It helps you to optimise and predict the generation of solar power plants which are on rooftop or ground mounted.

We provide complete monitoring solutions at all times by giving your real-time information on all the essential parameters which will help you in getting maximum yield from your solar power plant

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Data Logger with built in GSM/GPRS Modem (DRS/DL-GSM)

GSM Antenna	
<ul style="list-style-type: none"> ▪ Impedance ▪ VSWR ▪ Radiation ▪ Operating Temperature ▪ Connector ▪ Maximum power ▪ Frequency 	<p>50 ohms < 2.0 Omni-directional -10 to +55 degree Celsius SMA 50W 900 MHz: 824-960 MHz 1800 MHz:1710-1880 MHz</p>
GSM interface	
<ul style="list-style-type: none"> ▪ GPRS class ▪ SMS ▪ SIM card ▪ RF output power ▪ Protocols ▪ Memory 	<p>GPRS multi-slot class 10 Text & PDU mode Standard 1.8V/3V type Class 4 (2W) @ 850/900MHZ Class 1 (1W) @ 1800/1900MHZ Embedded TCP/IP and UDP/IP protocol stack, Socket, HTTP, FTP, SMTP 1MB RAM Internal RTC with battery backup</p>
Analog Input	6 Channel (0-5V or 4 – 20 mA) with 12 bit resolution
Digital Input	6 Digital inputs or pulse counter
Digital output	4 Digital outputs, open collector type for sink outputs, capable of handling load 200mA @ 12VDC
DI12 interface (<u>Optional</u>)	1 Universal SDI12 interface
Serial Interface	RS 232/485 interface, supports baud rate up to 115200bps
Internal storage	SD card (micro SD). Storage Up to 32 GB (Optional and on demand only)



Ambient Temperature & Humidity Sensor (DRS/ATS/70S)

Measuring Range	0 - 100 °C
Accuracy	± 0.5 °C
Sensor	RTD PT100Ω Class A
Cable	3m Teflon
Operating Temperature	0 - 70 °C
Supply Voltage	5 VDC
Output	0 - 1 V corresponding to 0 - 100 °C



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Wind Speed Sensor (DRS/WSS)

Operating Temperature	-40°C Min, +65°C Max
Sensor Type	Solid State Magnetic Sensor
Cable Type	4 - conductor, 26 AWG
Cable length	12 meters
Connector	Modular Connector(RJ-11)
Maximum Cable Length	73 meters (Not Included)
Wind Vane and Control Head	UV-resistant
ABS Wind Cups	Polycarbonate
Anemometer Arm	Black Anodized Aluminium
Range	0.5 to 89 m/s
Accuracy	±2 mph or ±5% (whichever is greater)
Weight	1.34 kg's
Resolution and Unit	Measured in 1mph. Other units are converted from mph and rounded to nearest 1 km/h, 0.1m/s.
Range	0.5 to 89 m/s, 1 to 322 km/h
Accuracy	3km/h, 1m/s or ±5% (whichever is higher)



Note: Maximum displayable wind speed decreases as cable increases. At 42m of cable, maximum displayable wind speed is 60 m/s; at 73 m, maximum wind speed displayed is 45 m/s.

Solar Radiation Sensor (DRS/SRS/130S)

Operating Temperature	-40°C Min, +65°C Max
Storage Temperature	-45°C Min, +70°C Max
Transducer Type	Silicon Photodiode
Spectral Response	400 to 1100 Nano meters
Cosine Response	
▪ Percentage of reading	±3% (0° to 70° C), ±10%(70° to 85° C)
▪ Percentage of full scale	±2%(0° to 90° C)
Accuracy	±5% of full scale
Drift	Up to ±2% per year
Temperature Coefficient	+ 0.12% per °C
Reference Temperature	25 °C
Housing Material	UV-resistant PVC plastic
Weight	250 gms
Range	0 to 1800 W/m ²
Output	0 to 3 VDC (0-1800w/m ²) green colour



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Surface Module Temperature Transmitter (DRS/SMTT/70S)

Measuring Range	0 - 100°C
Accuracy	± 0.5°C
Sensor	RTD PT100
Output	0-5V
Supply Voltage	12V DC
Weight	150gms(Approx.)

