



AMCI Smart Test Station

Wireless Mesh Networking
Web Interface
SCADA Accessible
Low-Power, Solar Energy

Product Highlights

The **AMCI Smart Test Station** (SMS) is a multipurpose remote monitor capable of functioning as a stand-alone monitor/data logger or as a CP test station monitor mesh node and network gateway.

Uses include:

- AC current density analysis.
- ON-OFF P/S readings.
- Test Point Monitoring
- Monitoring critical bonds.
- Data acquisition for CP analysis.

Pre-programmed features activated on website:

- Wave print during interruption cycle.
- Depolarization plot.
- Check for dynamic stray currents.
- Fast data acquisition mode – up to 1 reading per ms for 5 minutes.



Test Station

Real Time

An inconspicuous solar panel provides a reliable power source to recharge the monitor's battery. Ample power allows it to function real time to receive commands, update configuration data (i.e. alarm trip points), reporting frequencies, upgrade software, upload data files and operate as data logger without supplemental power or compromising battery life. The solar panel and battery pack have a design life of 8-10 years under normal operating conditions.

These low cost batteries are not classified as hazardous eliminating the need for special handling during shipping and disposal.

Telemetry

The **AMCI Smart Test Station** is available with GSM/GPRS, CDMA, or satellite telemetry. The satellite telemetry is small and compact; no need for extra power supplies (i.e. many satellite transceivers have power consumption that can be 50 times greater); does not require special installation procedures.

Website

The **AMCI Smart Test Station** is completely configurable on the AMCI website; define input parameters, alarm trip points, alarm notification (email, voice, SMS), reporting frequency. All data is delivered to the AMCI website where it can be downloaded in a number of file formats to facilitate importing into an existing database.

Technical Specifications

Specifications			
Cellular	GSM /GPRS Quad Band – Part # MSH1301		
Cellular	CDMA – Part # MSH1302		
Satellite	Satellite – Part # MSH1310		
Operating Environment	Temp: -35°C to +80°C Humidity: 0-95% non-condensing		
Power	Solar panel. Internal battery pack rechargeable; 8-10 year life under normal operating conditions. Reserve power: provides 4 weeks of standby power.		
Size	3" diameter by 12" length (plus antenna). Mounting brackets with cable. Colors: white, yellow, red, orange, blue, black.		
Inputs	Reading	Resolution	Range
	DC pipe-to-soil ref. cell #1	5 mVDC	0-5 VDC
	IR Free DC pipe-to-soil	5 mVDC	0-5 VDC
	AC pipe-to-soil	0.1 VAC	0-100 VAC
	AC protected coupon current density	1 mA/m ²	TBD
	DC protected coupon current density	1 mA/m ²	TBD
	Native coupon DC pipe-to-soil	5 mVDC	0-5 VDC
	DC pipe-to-soil ref cell #2	5 mVDC	0-5 VDC
	DC current on pipeline	50 µVDC	0-50 mVDC
Website	Monitoring		Data Logging
	Configure/define inputs		Set logging frequency
	Set reporting frequency		Set interval
	Set alarm thresholds		Select parameters
	Select notification method		Select download format