



AMCI Interrupter

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

Product Highlights

The **AMCI Interrupter** is a fully programmable; schedule interruption of a single or group of rectifiers from the website. The interrupter features an LCD display with preprogrammed functions (voltage, current, P/S voltage, AC power, battery voltage, signal strength, interruption parameters) to simplify installation and verify web settings. When used in conjunction with the **AMCI Smart Test Station**, determine the influence of each rectifier on test points along the pipeline without the need of a site visit (see Test Point graph). Interrupter is a multipurpose remote monitor capable of functioning as a stand-alone monitor/data logger, mesh node and network gateway.

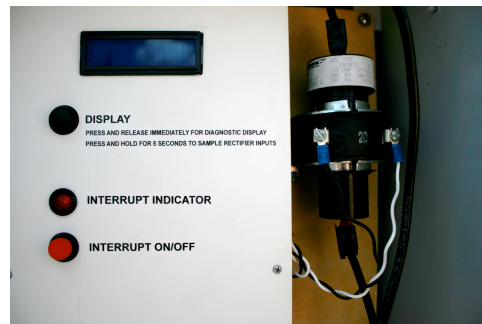
Surge Protection

The **AMCI Interrupter** incorporates the latest low power techniques (some of which are proprietary designs), which enable the unit to use the latest battery technology. It operates on a small nonhazardous rechargeable Li-Ion battery with an energy density of 2.6 AmpHrs. When not interrupting, the AMCI interrupter requires only a brief 1 to 15 minute connection to A/C power each day; statistically the surge risk is much lower, 90% to 99%, when compared with a unit requiring an always "on" connection. Surge risk is further reduced with relay isolation of 15,000V at the AC input. When isolating equipment from electrical surges such as lightning transients; the typical approaches using only MOVs (metal oxide varistor) and isolation transformers will not sufficient protection. Our equipment is **TOTALLY** disconnected from all power sources (except optional solar) for most of the day through high voltage relay isolation. To further isolate the interrupter, an inconspicuous 3 sq.in. solar panel (optional) provides a reliable power source to recharge the battery. The solar panel and battery pack have a design life of 8-10 years under normal operating conditions.

Ample power is available for real time operation - receive commands, update calibration data, alarm trip points, reporting frequencies, upgrade software, upload data files and operate as data logger without supplemental power or compromising battery life.



Base Station



Control

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 Interrupter** is completely configurable on the AMCI website - define input parameters, alarm trip points, alarm notification (email, voice, SMS), reporting frequency. Download data in a number file formats to facilitate importing into an existing database

Technical Specifications

Specifications			
Cellular	GSM /GPRS Quad Band – Part # MSH2301		
Cellular	CDMA – Part # MSH2302		
Satellite	Satellite – Part # MSH2310		
Operating Environment	Temp: -35°C to +80°C Humidity: 0-95% non-condensing Humidity: 0-75% (satellite)		
Power	120/240 VAC (freq 50-60 Hz) Line Power 12/25 VAC 12/35 VDC Current (No interruption) 5 VDC 1 mA Current (Interruption) 115 VAC 85.0 mA Solar Panel (optional): Recharges internal battery; 8-10 year battery life under normal operating conditions. Reserve power: +5 months of standby power.		
Size	13.53"x11.55"x5.94". - Weather tight NEMA 4X		
Inputs	Reading	Resolution	Range
	Voltage	5 mVDC	0-100 VDC
	Current	50 µVDC	0-100 mVDC
	Pipe-to-soil	5 mVAC	0-5 VAC
Relay Timing	On / Off range	0.1 - 100 sec. in 0.01 sec increments	
	Max timing error	+ / - 1 mSec	
	GPS receiver updates.	1 Sec.	
Relays	Mercury and Solid State	100 Amp, 60 Amp (Mercury)	
Website	Parameters	Data Logging	
	Configure/define inputs	Set logging frequency	
	Interruption frequency/groups	Set on/off interval	
	Set alarm thresholds	Select channels	
	Select notification method	Select Download Format	

