



Solar Injection

AUSTRALIA



Keeping you in control.

Being able to not only monitor but also control your chemical injection system can reduce downtime and eliminate chemical wastage, saving you money. Having access to these functions remotely, from any internet connection, and in near real-time can greatly reduce routine site visits to isolated locations to keep costs down even further.

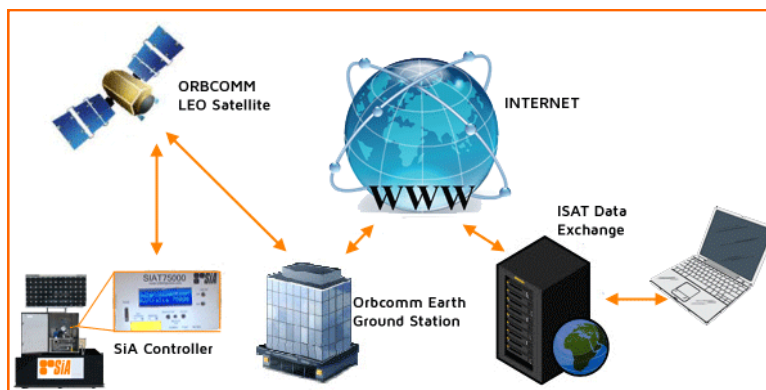
Typical Messages Exchanged Through iSAT System

Out-Going —from the RTU (Client Application) to iSAT:

- » Status of the various sensors, monitors and devices connected to the RTU's I/O at any nominated time or event
- » GPS Position
- » Date & Time of the message
- » Date & Time of when the status (record) was taken.
- » Alarms generated by certain preset but variable conditions sensed by the RTU
- » Acknowledgements of messages received

In-Coming —from iSAT to the RTU:

- » Requests for instant messaging (Polling)
- » Changes to the Reporting intervals
- » Changes to Alarm Set Points
- » Switching Digital Outputs On or Off
- » Provisioning of new sensors
- » Over-The Air Programming
- » Alarms generated by certain preset but variable conditions sensed by the RTU
- » Acknowledgements of messages received



iSAT: Worldwide, low cost and reliable 2-way monitoring, control and communication solutions.

	SiA 1000	SiA 2000
Physical		
Size (mm)	134 x 63 152	213 x 125 x 25
Weight	0.01 kg	0.4 kg
Locking Connector	Available	Yes
Non Locking PCB to PCB	Available	No
Pins	6	30
Digital Inputs	None	8
Digital Outputs	None	4
Analogue Inputs	None	4
Integrated GPS	None	16 Channel
Flash Memory	1 MB	2 MB
SDRAM	1 MB	NA
EEPROM	2 KB	NA
DRAM	NA	2 MB
SMA Antenna	No	Yes
MCX Antenna	Yes	No
GPS Connector	NA	SMA
Environmental		
Operating Temperature	-40C to +85C	-40C to +85C
Shock/Vibration	20G's/8G's	SAE J1544
Pressure Wash	NA	NA

	SiA 1000	SiA 2000
Power		
Input Power Range	9-18V	9-36V
Transmit	2A	2.5A
Sleep	10uA	100uA
Receive	70mA	120mA
Data Interfaces		
Serial Ports	2	2
RS-232	Available	Yes
CMOS	Available	No
J1708 CAN BUS	No	Yes
J1939 CAN BUS	No	No
RS-485	No	Yes
Communications		
Transmit Frequency	148.0 to 150.0 MHz	148.0 to 150.0 MHz
Receive Frequency	137.0 to 138.0 MHz	137.0 to 138.0 MHz
Minimal Detectable Signal	-120dBm	-120dBm
Transmit Power (Minimum)	5W	5W
Transmit Power (Maximum)	10W	10W
Data Rate Uplink	2400 bps	
Data Rate Downlink	4800 bps	
Operation Modes		
Transmit	Yes	Yes
Standby	Yes	Yes
Sleep	Yes	Yes

Why Choose Solar Injection Australia



Quality

In everything we do and in the materials we use.



Innovation

not imitation.



Experience

You can rely on. 30+ years in the Oil & Gas Industry.

Contact Us

If you would like some more information or want to enquire how Solar Injection Australia's remote monitoring and control can help in your application, please contact us:

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or

Email: sales@solarinjection.com.au