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Intelligent Electronic Systems



NITROPRO

NC1000

**GPRS Nitrogen
Monitoring System**



Features

- GSM control of entire system from anywhere in the world using SMSes.
- All SMS commands in plain English.
- Monitors and logs concentrator N₂ purity, N₂ pressure, Flow rate and Totalized flow.
- Parameter resolution: 0.1%. Hardware accuracy: better than ±0.5%.
- Web-based graphing of concentrator N₂ purity, N₂ pressure, Flow rate and Totalized flow viewable over daily, monthly or yearly basis.
- Monitoring and alerting of air pressure, N₂ pressure and purity error signals.
- Monitoring and alerting of two Compressor Shutdown and Running hours with alarm reporting and service interval alerts and reporting.
- Purity low alert (programmable thresholds 90-100%.)
- Flow rate excess alert (programmable thresholds.)
- Power failure alerting.
- Alerting signals can be SMSed or emailed to 5 addresses / cellular numbers
- Flow-rate and totalization from 1kg/hr up to 300kg/hr (various options.)
- Generator operation logging.
- Access door logging.
- On-board logging memory for more than 30 days.
- On-board battery for 24hr backup.
- Real-time clock which keeps the time in the event of a power failure.
- Dimensions: 190mm X 140mm X 70mm.
- Power supply voltage: 24V ± 20%; Current: Nominal 45mA; 150mA max.
- Customizable interfaces and various language possibilities.

The **IS-NC1000 GPRS NitroPro** is a GPRS wireless monitoring device for monitoring and logging an entire nitrogen plant PSA concentrator system. The unit continuously monitors the compressor system, all the concentrator parameters and the flow parameters and allows the user to log-on to the web and view graphs of nitrogen purity, nitrogen pressure, flow rates and totalized flow. Further, alarm reports and monthly reports of all parameters can be viewed. The system can log more than 30 days with its on-board non-volatile memory without access to the internet.

Alarm conditions may be set for all the parameters of both the compressor and concentrator systems and these conditions can be programmed to be emailed or SMSed to various technicians or managers. This allows full management and control from head office of the all the systems in the field. Further, warnings and alarms can save on maintenance call-outs.

The **IS-NC1000** controller can be set up from a mobile phone anywhere in the world. The controller command set is in plain English making it very simple to remember the commands. Once the unit has been set up, no further adjustment is necessary. The unit maintains all its parameters, even in the event of a power failure. It has a built-in real-time clock which keeps its time even during a power failure. Further, the **IS-NC1000** has battery back-up which can keep the system operating for up to 24 hours in the event of a power failure.

Additional features include: access door monitoring, generator power monitoring and remote system shutdown

Intelec Systems offer a range of top quality, unique and innovative products. We also offer a wide range of design services and with over 25 years of design experience, we can provide an ideal research, development and production centre.

Our products are also used by scientists and research institutes throughout the world.



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