Iris Power Remote I/O Unit
For Analog Input or Output Signal Manipulation with Continuous Monitors

The Iris Power Remote I/O Unit is an optional interface hardware designed to function in conjunction with a TracII or GuardII monitor. The Unit allows the TracII or GuardII monitor to share machine data or receive machine operating conditions. The Remote I/O Unit also helps provide context to the PD, Flux, or endwinding vibration measurements to improve trending data. Remote I/O Units are available in three formats:

- **The Analog Signal Output Module (ASOM)** is for online transfer of analog signals, proportional to the Iris Power monitors’ summary data, to plant equipment that only accepts this form of signal. For example, +Qm and –Qm summary numbers per phase.

- **The Analog Signal Input Module (ASIM)** for on-line measurement of machine operating conditions such as machine voltage, load, temperature, pressure and humidity.

- A custom unit is also available which uses a mixture of analog input and analog output module cards.

### SPECIFICATIONS

**POWER SOURCE**
- Voltage: 115/230 V, 50/60 Hz
- Consumption: <100 W

**COMMUNICATIONS**
- Ethernet Ports (2 RJ45 connectors)
- Modbus TCP/IP
- Preconfigured to work with the TracII and GuardII monitors

**ANALOG SIGNAL INPUTS**
- 4-20mA
- 12 Bit Resolution
- Two channels per card

**ANALOG SIGNAL OUTPUTS** (standard unit)
- 4-20mA
- 12 Bit Resolution
- Two channels per card

**OTHER I/O Types** (consult with sales)
- Analog
- Digital (DC and AC)
- RTD
- Thermocouple

**ENVIRONMENTAL CONDITIONS**
- Temperature (operating/storage): 0°C to 55°C/-20°C to 85°C
- Relative humidity: <95 % non-condensing

**SOFTWARE**
- Iris Power IAM software (included with the Monitor) for configuration, downloading, and analysis
- Runs on any computer with MS Windows XP SP3 or later operating system

**19” RACK MOUNTED CHASSIS**
- Protection IP20
- All metal construction
- Easy access drawer makes wiring a snap
- Mounting hardware included
- Weight, approx.: 13 kg (29 lb)
- Dimensions: 482 mm (19”) x 318 mm (12.5”) x 222 mm (8.75”)
Iris Power Remote I/O Module

NEMA 4, 4X, 12, 13 ENCLOSURE
- Protection IP67
- Fibreglass construction
- Easy access hinged door makes wiring a snap
- Shock and Vibration feet included
- Weight, approx.: 7 kg (14 lb)
- Dimensions: 406 mm (16") x 355 mm (14") x 203 mm (8")

ETHERNET
10/100 Mb/s Base T Ethernet is an industry standard as a communications platform for Networking. The Remote I/O Unit has a 2-port HUB included. The use of a local Ethernet HUB is recommended and would make node-to-node connections easier.

MODBUS
Modbus for TCP/IP is a standard industrial communications protocol used by Iris Power. Modbus was chosen for its universal acceptance and versatility.

CUSTOM REQUIREMENTS
For applications that require a mixture of ASOM, ASIM and/or CUSTOM input and output types, they can be easily combined into a single Unit. The only restriction would be the physical size of the chassis or enclosure. Please contact your sales representative for further help.

BASIC UNITS FOR ORDER
- Remote I/O complete with NEMA 4X enclosure for wall mounting, 6 analog outputs, 4-20mA 12 Bit, power supply 115/230Vac, Ethernet Port for Modbus TCP/IP Protocol. Outputs proportional to +Qm and –Qm PD summary numbers per phase. (ASOM)
- Remote I/O complete with 19” steel cabinet for rack mounting, 6 analog outputs, 4-20mA 12 Bit, power supply 115/230Vac, Ethernet Port for Modbus TCP/IP Protocol. Outputs proportional to +Qm and –Qm PD summary numbers per phase. (ASOM)
- Remote I/O complete with NEMA 4X enclosure for wall mounting, 4 analog inputs, 4-20mA 12 Bit, power supply 115/230Vac, Ethernet Port for Modbus TCP/IP Protocol. Inputs for machine operational conditions. (ASIM)
- Remote I/O complete with 19” steel cabinet for rack mounting, 4 analog inputs, 4-20mA 12 Bit, power supply 115/230Vac, Ethernet Port for Modbus TCP/IP Protocol. Inputs for machine operational conditions. (ASIM)

For other Remote I/O configurations, contact your sales representative.