NG-IO

Digital Input/Output remote module

The ideal device to acquire status from the field, pulses from every meter and manage programmed switching ON and OFF of every kind of load both in civil, industrial and service sectors.

NG-IO is a compact and sturdy device for digital Input/Output acquisition; it's equipped with specific characteristics for an efficient digital signal management.

The modular system, bearing particular characteristics not easily found on the market, is specifically designed for installers:

> A detailed display allows reading all measured parameters as well as specific diagnostic ones for a correct device setting.
> The 5 functions jog button allows local setting, checking or editing of all parameters with no need for any connected PC's.
> Unlike the majority of the devices available on the market that need an external power supply, NG-IO is equipped with an internal power pack that can be used with both AC (90-240 Vac) and DC (24-120 Vdc) without extra settings.
> The instrument's case is a compact 5 DIN modules (90x90x60mm), ideal to be inserted into electric panels without any adapter needed.
> The connectors are all screw terminals and are removable for ease of wiring and replacement.

NG-IO, a different approach to digital signals acquisition

> NG-IO measures, 1000 times per second, the resistance of all contacts wired on its 8 inputs. Unlike classical optoisolated inputs, this technology allows discriminating ON-OFF status as well as alarms for cut wires or shortcircuit or NAMUR passive circuits status (<1 Kohm and > 8 Kohm).
> NG-IO measures and shows on the display pulses' intervals and durations thus allowing a quick check directly on the field and easy setting of a debounce filter.
> Using NG-IO as pulses' counter will give you an overall meter and 4 partial ones that can be individually activated and set for a simpler pricing periods management.
> It is possible, for each Input, to specify its offset and variable gradient as well as pulses' weight (unit/pulse or pulses/unit), if dealing with meters. Read, via Modbus, instant and integrated values of the monitored quantity or pulses' pure number.
> There is a specific function for machinery monitoring, to measure its actual running times and utilisation percentage over time and use the data to plan correct maintenance activities.
> 4 optomos non polarised Outputs, with infinite actuation cycles, can be used as static control, command with self-return (monostable) or 0 to 5 Hz settable frequency generator.

AC Power supply	90-250 Vac 50/60 HZ
DC Power supply	24-120 Vdc
Consumption	1.5 VA max (AC) or 1.5 W max (DC)
Dimension	5 DIN modules (88x90x60 mm)
Weight	95 grams
Display	128x64 pixel graphic with RGB LED display
Communication Interface	RS isolated with RTU Modbus protocol with selectable speed up to 115200 bps with programmable parity
Working temperature	between -10°C and +55°C
Inputs	8 active Inputs with 8 Vdc that can be interfaced with NAMUR contacts with 5Hz max Frequency
Outputs	4x24 Vdc Max and 100 mA optomos Outputs