



General

| | |
|----------------------------|-----------------------------------|
| Weight | 0.7 Kg |
| Operating temperature | -40 to +70 °C |
| Protection | outdoor use |
| Voltage supply | 11- 32 VDC |
| Current consumption (idle) | 75 mA (28 VDC) 95 mA (14 VDC) |
| Data interface | Parker ICP (IQAN CAN Protocol) |

Outputs

| | |
|--------------------------|-----------------------------|
| Proportional outputs | 6 double (max) ¹ |
| Type current mode | current - closed-loop |
| PWM mode | voltage - open-loop |
| Signal range | 100 - 2000 mA |
| Dither frequency | 25 - 333 Hz |
| Resolution | 1 mA |
| Digital outputs | 12 (max) ¹ |
| Type | high side switch |
| Total load (all outputs) | 20 A |

Inputs

| | |
|---------------------------|--------------------------|
| Voltage inputs | 8 (max) ¹ |
| Signal range | 0 - 5 VDC |
| Resolution | 5 mV |
| Frequency inputs | 4 (max) ¹ |
| Signal range (speed mode) | 2 - 30000 Hz |
| (position mode) | 0 - 30000 Hz |
| Quadrature inputs | 2 (max) ¹ |
| Signal range (speed mode) | 2 - 30000 Hz |
| (position mode) | 0 - 30000 Hz |
| Digital inputs | 20 (max) ¹ |
| Signal high | 4 VDC - V _{BAT} |
| Signal low | 0 - 1 VDC |

1) The flexible inputs and outputs share the same physical pins. The user defines the channels/pins with IQANdesign.

Application

The IQAN-XA2 is an expansion module in the IQAN product group and is used with the IQANdesign platform. This unit is designed for high digital I/O count, weather resistance, and safety.

All IQAN expansion modules communicate with a master over a CAN bus. The XA2 module has new I/O flexibility that allows the user greater freedom in defining signals for measurement and control.

The IQAN-XA2 can control proportional valves using current mode (current closed-loop) or PWM mode (voltage open-loop) signals. The analog inputs accept 0-5V signals from input devices or sensors. These inputs can also be set up to accept 4 frequency or 2 directional frequency (quadrature) inputs. Many outputs may alternatively be used as digital inputs for switches. The XA2 also has a number of high power digital (on-off) outputs.

The aluminum housing is designed to be rugged, but light and has a sealed, automotive AMP/Tyco power timer connector. The XA2 has a membrane to prevent condensation inside the housing. This controller is designed for the outdoor environment.

The unit executes a self-test during start up and cyclic operation. An internal watch dog checks for software errors and will interrupt outputs if errors are detected. The IQAN-XA2 is made using selected components and conforms to strict international requirements.

Diagnostics: If an error is detected an LED on the top of the controller flashes a sequence to indicate the nature of the error.

Description
 IQAN-XA2

Ordering PN
 5010033

