

General

Weight 0.7 Kg -40 to +70 °C Temperature range Protection outdoor use Voltage supply 11-32 VDC Current consumption (idle) 160 mA (28 VDC) 200 mA (14 VDC)

Data interface

Parker ICP Type

(IQAN CAN Protocol)

J1939. Generic CAN

Communication port

Type USB 1.11

Outputs

Proportional outputs 8 double (max)2 Type current mode current - closed-loop PWM mode voltage - open-loop 100 - 2000 mA Signal range Dither frequency 25 - 333 Hz Resolution 0.1 mA 24 (max)2 Digital outputs high side switch Type 16 A Total load (all outputs)

Inputs

Voltage inputs 13 (max)² Signal range 0 - 5 VDC Resolution 1.2 mV Frequency inputs 5 (max)2 Signal range (speed mode) 2 - 20000 Hz (position mode) 0 - 20000 Hz

Digital inputs 13 (max)2 4 VDC - VBAT Signal high 0 - 1 VDC Signal low

1) the USB driver circuit was updated on January 1, 2015.

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

IQAN System Products

Application

The IQAN-MC2 is a flexible master unit that works with a variety of expansion modules in the IQANdesign platform control system. This unit is suitable for use as either a Bus master or standalone control. The IQAN-MC2 has new I/O flexibility that allows the user greater freedom in defining signals for both measurement and control.

The different input types are voltage, on/off, pulse and frequency. The outputs are proportional and on/ off. The unit also has two CAN interfaces for bus communication using IQAN CAN Protocol (ICP) and SAE J1939 or Generic CAN.

The MC2 is equipped with a Real Time Clock and can perform data logging functions.

The IQAN-MC2 can control proportional valves using current mode (current closed-loop) or PWM mode (voltage open-loop) signals. The analog inputs will accept 0-5V signals from input devices or sensors. The inputs can also be configured for 5 frequency inputs. Some outputs may alternatively be used as voltage inputs or digital inputs for switches. For communication and diagnostics the MC2 has a USB interface.

The aluminum housing is designed to be rugged, but light and has a sealed, automotive AMP/Tyco power timer connector. The IQAN-MC2 has a membrane to prevent condensation inside the housing. Additional protection allows the unit to be steam-cleaned. This controller is designed for the outdoor environment.

Description	Ordering PN
IQAN-MC2-M14	20077787 ³
Phased-out part number	
IQAN-MC2	200708994

- 3) This p/n is used after January 1, 2015 and requires software versions 2.61 and 3.14 or higher.
- 4) This p/n was used before January 1, 2015.



