

Application

The IQAN-TOC2 is a new task oriented controller in the IQAN product group. This unit is designed for ease of setup, weather resistance, and safety.

The TOC2 is a general purpose unit that can control two bi-directional valve sections or two cartridge solenoids simultaneously. The IQAN-TOC2 communicates with a variety of input and output devices. It has current mode (current closed-loop) or PWM mode (voltage open-loop) output for valve control. The analog inputs accept signals from joysticks or potentiometers. Two digital inputs can be used to read switches.



Properties

Ease of setup

The IQAN-TOC2 has a simple mechanical interface for calibration. With a preloaded personality from the factory, setup can be easily performed on the machine using a screwdriver. Adjustments possible include threshold, maximum output and slopes. The TOC2 may also be connected to a PC or Palm device and programmed using IQANdevelop software to change the functionality of the controller. This advanced feature allows the TOC2 to be used in more demanding applications.

Weather resistance

The housing is designed to be rugged, but light and has a sealed, automotive AMP junior-power timer connector. The IQAN-TOC2 has a membrane to prevent condensation inside the housing. This controller is designed for the outdoor environment.

Safety

The TOC2 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.

Order code	
Example	IQAN-TOC2
Unit type code	_____
Unit type code:	product description TOC2 - task oriented controller, 2 outputs

Electronic Remote Controls IQAN-TOC2

Technical Data

General

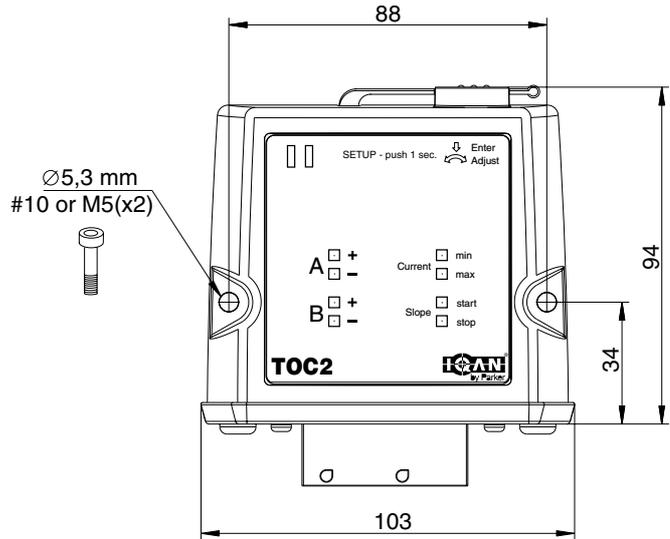
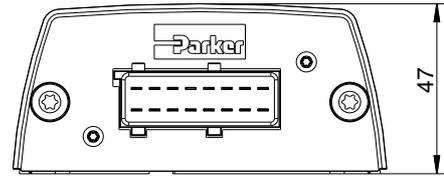
Weight	0.2 Kg
Operating temperature	-40 to +70 °C
Protection	outdoor use
Voltage supply	9 - 34 Vdc
Current consumption (idle)	60 mA (28 Vdc) 40 mA (14 Vdc)
Data interface	mechanical encoder or RS232 using IQANdevelop
VREF output	4.9 - 5.1Vdc, 30 mA (28V)

Outputs

Current / PWM outputs	
Number	2 double
Type current mode	current - closed loop
PWM mode	voltage - open loop
Min. threshold	50 mA
Max. load	3000 mA
Dither frequency	25 - 333 Hz
Resolution	1 mA

Inputs

Voltage inputs	
Number	2
Signal range	0 - 5 Vdc
Resolution	5 mV
Digital inputs	
Number	2
Signal high	4Vdc - V _{BAT}
Signal low	0 - 1Vdc



unit = mm

Environmental Protection

EMI

- ISO 11452-2 (immunity vs EM field)
- ISO 14982 (radiated emission)
- ISO 11452-4 (immunity vs injected RF)
- ISO 7637-2,-3 (immunity vs supply transients)

ESD

- EN 61000-4-2 (external)

Mechanical environment

- IEC 68-2-64 Fh (random)
- IEC 68-2-29 Eb (bump)

Climate environment

- IEC 68-2-18 Rb2 (water)
- IEC 68-2-30 Db (var1, damp, cyclic)
- IEC 68-2-3 Ca (damp, heat steady state)
- IEC 68-2-2 Bb (heat)
- IEC 68-2-1 Ab (cold)
- IEC 68-2-14 Nb (change of temperature)

Chemical environment

- IEC 68-2-52 Kb (salt mist, cyclic)

For latest information visit our website www.iqan.com

Information in this data sheet is subject to change without notice.



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