Electronic Remote Controls

IQAN-XP

Catalogue HY17-8307/UK
October, 2003

Application

In more complex and advanced IQAN® systems, there may be a need for extra I/O. In these cases expansion units can be added to the system.

IQAN-XP is a general purpose expansion module for providing inputs and outputs to the IQAN system. It is equipped with proportional current outputs for e.g. valve control, digital outputs for auxiliary functions, analog inputs for signals like pressure, position and temperature and frequency inputs to measure engine and vehicle speed etc.

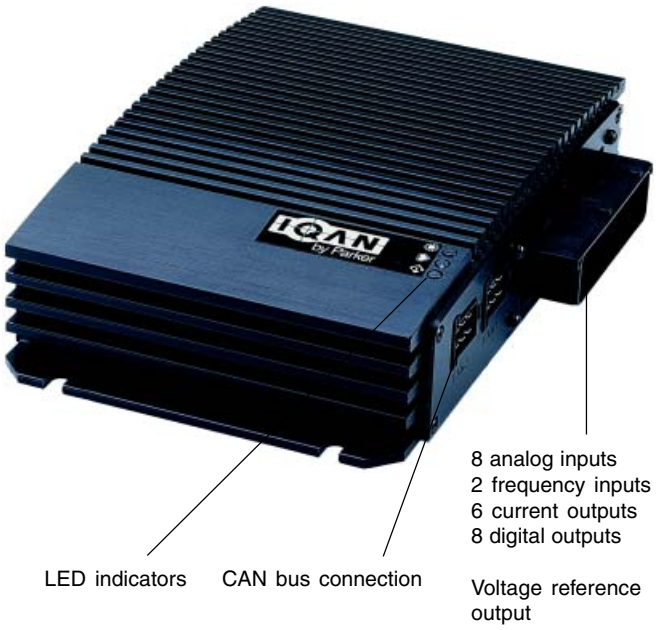
Design and function

IQAN-XP is designed for in-cab use, one type for connection to both 12 Vdc and 24 Vdc systems. All inputs and outputs are protected against short circuit to ground and to main power supply.

IQAN-XP is connected to other IQAN modules through a CAN bus which makes data exchange more efficient, simplifies installation and increases noise immunity.

All double acting proportional outputs are current controlled, guaranteeing stable output even if resistance (due to temperature) or supply voltage varies.

LED indicators at the top of the module flash green light to show supply voltage and status.



Order code

Example **IQAN-XP**

Unit type code

Unit type code: product description
XP - expansion power

General

Weight	1,1 Kg
Rated power supply	12-24 Vdc
Min/max power	11/32 Vdc
Operating temperature	-25 to +50 °C, +50 to +70 °C (reduced output)
Protection	in-cab use
Current consumption (idle)	0,2 A (28 Vdc), 0,45 A (14 Vdc)
Data interface	Parker ICP (IQAN CAN Protocol)

Digital outputs

Number	8 pcs
Type	high side switch
Signal range	1,2 Adc

Frequency input

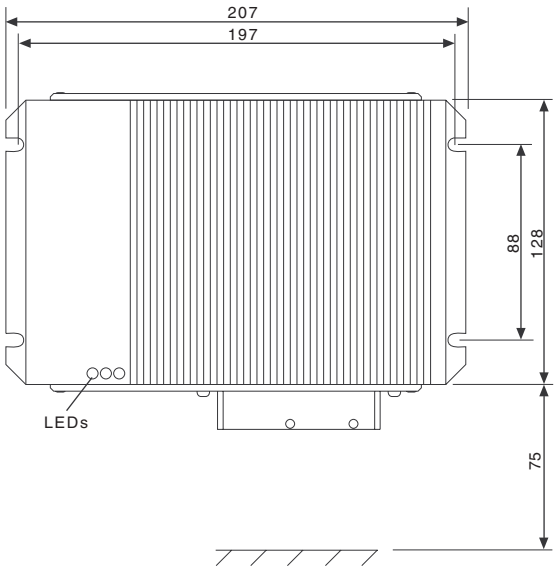
Number	2 pcs
Signal range	2 Hz to 10 kHz
Resolution	+/-1 Hz

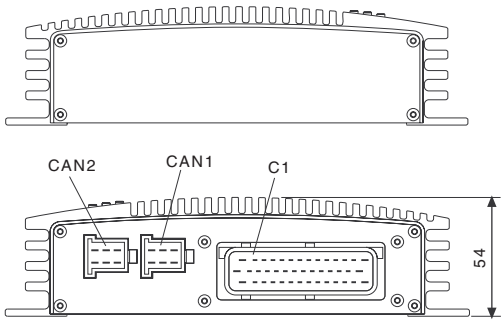
Analog/Digital input

Number	8 pcs
Signal range	0,0-5,0 Vdc
Active range	0,5-4,5 Vdc
Resolution	5 mV

Current output

Number	6 double channels
Signal range	0,1 Adc to 1,5 Adc
Resolution	0,37 mA





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
IEC/EN 61000-4-2 (external)

Mechanical environment
IEC 68-2-64 Fh (random)
IEC 68-2-29 Eb (bump)
IEC 68-2-27 Ea (shock)

Climate environment
IEC 68-2-18 Ra1 (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)

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