

HYDRECO

HYDRAULIC SOLUTIONS PROVIDER

DX UNIT CANOPEN ELECTRONIC CONTROL UNIT



General description

The **DX-unit** is an electronic control unit with CANopen communication that is used in the ELECTRAULICS control system. The unit can also be used as a stand-alone control unit.

The DX-unit contains 14 digital power output with each 5A capacity -all output has monitored overload & short circuit protection. The unit also contains 10 digital inputs and 2 analog input. One of these can be user defined as frequency inputs with the CAN master PC-Tool software.

Diagnostic LEDs shows the working status for the unit. The housing have a protection class IP67

Application areas

- Mobile machinery. Common application: Control of high power working lights and high power hydraulic valves.



Technical Data

General data

Supply Voltage	9-30 VDC
Operating temp.	-40° C to +60° C
Max. current power output	40 A, simultaneously
Housing material	PA6 30GF
Housing breathing filter	Gore-Tex ® membrane
IP protection class	IP67 (IEC 60529)
EMC	72/245/EEC, 2006/96/EC
Shock	IEC 60068-2-27 Es, 30g
Bump	IEC 60068-2-29 Eb, 10g
Vibration	IEC 60068-2-64, Random 10-250 Hz
Test level, IEC-tests	IEC 60721-3-5 Class 5M3
Weight	0.4 kg
Connectors	CINCH® 18 & 30 pin

Data communication

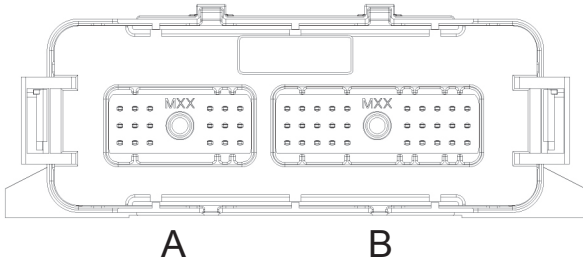
CAN-1	CANopen/CAN 2.0B, 500 kbps
PC-communication	RS232, 9600 kbps

Programming tool Hydreco ELECTRAULICS PC-TOOL™

Ordering Information

DX control unit compl. Part No. 1020 0010

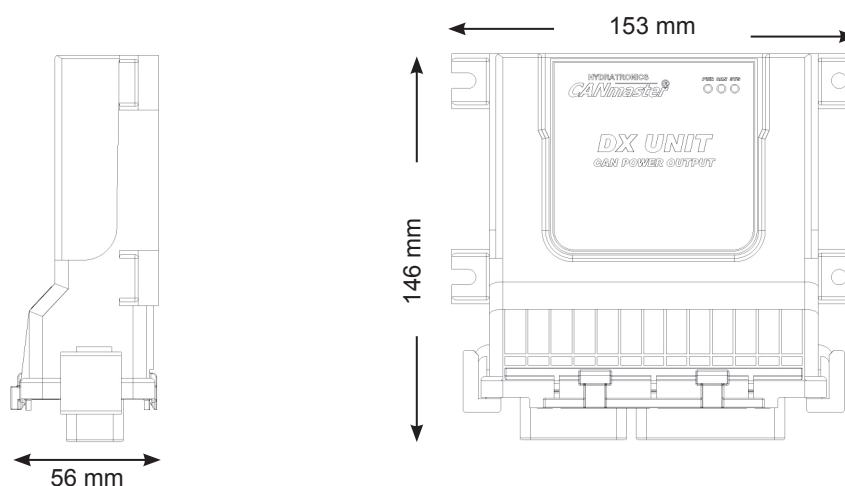
DX unit - Connector pin assignments



Pin No.	I/O function/designation
A1	RS232 RX
B1	RS232 TX
C1	CAN_H (CANopen)
D1	CAN_H (CANopen)
E1	Vbatt Power OUT
F1	Vbatt Power OUT
A2	Vbatt GND
B2	RS232 GND
C2	CAN_L (CANopen)
D2	CAN_L (CANopen)
E2	Vbatt Power OUT
F2	Vbatt Power OUT
A3	Vbatt SYS
B3	Adress 1
C3	Adress 2
D3	Adress GND
E3	Vbatt Power OUT
F3	Vbatt Power OUT

Pin No.	I/O function/designation
A1	-Vref A-In (Sensor supply)
B1	-Vref A-In (Sensor supply)
C1	Digital IN 00
D1	Digital OUT 00
E1	Digital OUT 01
F1	Digital OUT 02
G1	Digital OUT 03
H1	Digital OUT 04
J1	Digital OUT 05
K1	Digital OUT 06
A2	A IN 00
B2	A IN 01
C2	Digital IN 01
D2	Digital OUT 07
E2	Digital OUT 08
F2	Digital OUT 09
G2	Digital OUT 10
H2	Digital OUT 11
J2	Digital OUT 12
K2	Digital OUT 13
A3	+Vref A-In (Sensor supply)
B3	+Vref A-In (Sensor supply)
C3	Digital IN 02
D3	Digital IN 03
E3	Digital IN 04 Frequency IN 00
F3	Digital IN 05
G3	Digital IN 06
H3	Digital IN 07
J3	Digital IN 08
K3	Digital IN 09

Dimensions (mm)





CONTACT INFORMATION

EMEA

FINLAND	Hydreco Hydraulics Finland Oy, Helsinki	Tel: +358 9 342 4120	Fax: +358 9 342 41236	sales-fi@hydreco.com
GERMANY	Hydreco Hydraulics GmbH, Straelen (NRW)	Tel: +49 2834 94303-41	Fax: +49 2834 94303-64	info-de@hydreco.com
ITALY	Hydreco Hydraulics Italia Srl, Vignola (MO)	Tel: +39 059-7700411	Fax: +39 059-7700425	sales-it@hydreco.com
NORWAY	Hydreco Hydraulics Norway AS, Skjetten	Tel: +47 22 90 94 10	Fax: -	post-no@hydreco.com
RUSSIA	Hydreco Hydraulics Russia, Moscow	Tel: +7 495 967 3453	Fax: +7 495 785 0636	sales-ru@hydreco.com
UK	Hydreco Hydraulics Ltd, Poole, Dorset	Tel: +44 (0) 1202 627500	Fax: +44 (0) 1202 627555	info-uk@hydreco.com

AMERICAS

USA	Hydreco Inc, Charlotte (NC)	Tel: +1 704 295-7575	Fax: +1 704 295-7574	sales-us@hydreco.com
LATIN AMERICA		Tel: +1 704 572-6266		sales-es@hydreco.com

APAC

AUSTRALIA	Hydreco Hydraulics Pty Ltd, Seven Hills (NSW)	Tel: +61 2 9838 6800	Fax: +61 2 9838 6899	sales-au@hydreco.com
AUSTRALIA	Hydreco Hydraulics Pty Ltd, Narellan (NSW)	Tel: +61 246 476 577	Fax: -	sales-au@hydreco.com
AUSTRALIA	Hydreco Hoist & Winch Sales (WA) Pty Ltd, Bassendean (WA)	Tel: +61 8 9377 2211	Fax: +61 8 9377 2223	sales-au@hydreco.com
CHINA	Hydreco Hydraulics (Xiamen) Co. Ltd, Xiamen, (Fujian)	Tel: +86 0592 2237 901	Fax: +86 0592 2237 052	sales-cn@hydreco.com
INDIA	Hydreco Hydraulics India Private Ltd, Bangalore	Tel: +91 80 42713100	Fax: +91 80 42713111	sales-in@hydreco.com