

Electronics

QUICK REFERENCE GUIDE

EASY POWERFUL ROBUST

HydraForce offers a rugged line of electronic valve drivers, control units, operator interfaces and sensors designed specifically for the demanding mobile hydraulic equipment markets.

Electronic Valve Drivers (ExDR) – Whether you need simple closed-loop speed control, a fan control, or lift/lower, extend/retract controls, there is a HydraForce ExDR valve driver for your application. Vigorously tested and durable enough for mobile applications, complete with SAE J1939 and CANopen networking, these drivers fit into any system architecture. Choose from pre-programmed (EFDR, EGDR, ETDR, ESDR, EVDR) or custom configurable (ECDR) models. These units are configured with the HydraForce software, *HF-Impulse*.

THE ExDR FAMILY:

ECDR-0506A



ECDR-0203A



ExDR-0101A



ExDR-0201A



Model	Part No.	Output/Input	CAN
ECDR-0101A	4204820	1/1	-
EGDR-0101A	4204850	1/1	-
ETDR-0101A	4204810	1/1	-
EVDR-0101A	4204800	1/1	-
ECDR-0201A	4204740	2/1	1

Model	Part No.	Output/Input	CAN
EFDR-0201A	4204710	2/1	1
NEW ESDR-0201A	4213200	2/1	1
EVDR-0201A	4204700	2/1	1
ECDR-0203A	4208230	2/3	1
ECDR-0506A	4208560	5/6	1

THE ECU FAMILY:

ECU-0408A

ECU-0809

ECU-0814A



NEW



ECU-1616



ECU-2415A

ECU-2820A



ECU-3233A

ECU-2434A

NEW



ECU-3435S

Electronic Control Units (ECU)

For more complex control functions, the HydraForce family of Electronic Control Units (ECUs) feature flexible input and output configurations. These CE-certified units are programmed with CoDeSys but the ECU-0809 can also be programmed with *HF-Impulse*.

	Model	Part No.	I/O Count	CAN Ports	CoDeSys Ver.
NEW	ECU-0408A	4002815	15	1	2.3
	ECU-0809	4000350	21	1	2.3
	ECU-0809A	4002722	21	2	2.3
NEW	ECU-0814A	4002724	22	2	2.3
NEW	ECU-1616A	4002859	32	2	3.5
	ECU-1616B	4002860	32	2	3.5
	ECU-2415A	4000352	49	2	2.3
	ECU-2820A	4000383	38	2	2.3
	ECU-2434A	4002712	52	2	2.3
NEW	ECU-3233A	4000343	65	4	2.3
	ECU-3435S	4002858	69	2	3.5

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Operator Interfaces – Make your controls easy for the operator to use with a display or button panel switch.

OPERATOR INPUT:



ELD-6107A/B

A3
Display Unit
(A3F shown)A6
Display Unit
(A6F shown)ECBP CAN
Button Panel

Displays

Model	Part No.	Touchscreen	Display Size	I/O Count	Video Inputs	Network
NEW ELD-6107A	4002856	Yes	178 mm/7 in	5	2	CAN/GSM/UMTS/ WLAN/USB/RS232
NEW ELD-6107B	4002857	Yes	178 mm/7 in	5	2	CAN/WLAN/ USB/RS232
A3S	4000400	No	109 mm/4.3 in	-	-	CAN
A3F	4000401	Yes	109 mm/4.3 in	7	1	CAN
A6S	4000407	No	178 mm/7 in	1	-	CAN
A6F	4000408	Yes	178 mm/7 in	7	1	CAN

CAN Button Panels

Model	Part No.	No. of Switches
ECBP-4	4000384	4
ECBP-5	4000385	5
ECBP-6	4000386	6
ECBP-7	4000387	7
ECBP-8	4000388	8

WIRELESS NETWORKING:



ECAN-1



ERAU-6200



ELD-6107A/B

SENSORS:



ERT



WPS



EACD-1

Wireless CAN Gateway

Model	Part No.	Network
ECAN-1	4002768	CAN / WLAN

Remote Access Unit

Model	Part No.	Network
ERAU-6200	4002818	CAN/GSM/UMTS/ WLAN/USB/RS232

Display with Remote Access Features

Model	Part No.	Touchscreen	Display Size	I/O Count	Video Inputs	Network
NEW ELD-6107A	4002856	Yes	178 mm/7 in	5	2	CAN/GSM/UMTS/ WLAN/USB/RS232
NEW ELD-6107B	4002857	Yes	178 mm/7 in	5	2	CAN/WLAN/ USB/RS232

For technical information about HydraForce Electronics:

visit www.hydraforce.com/electronics or contact the following:

North America, Asia and South America: Call 1-800-682-6875

Email: ElectronicSupport@hydraforce.com

UK and Europe: Call 44-121-333-1800

Email: orders@hydraforce.com

WPS Pressure Sensors

Part No.	Sensing Port	Pressure Rating
4003000	G 1/4 A	0 to 50 bar (725 psi)
4003001	G 1/4 A	0 to 250 bar (3625 psi)
4003002	G 1/4 A	0 to 400 bar (5800 psi)
4003003	SAE #6	0 to 50 bar (725 psi)
4003004	SAE #6	0 to 250 bar (3625 psi)
4003005	SAE #6	0 to 400 bar (5800 psi)

Temperature Sensor

Model	Part No.	Temp Range	Output Signal
ERT-120	4206200	-40 to 150 °C (-40 to 300 °F)	5428 to 436 to Ω

AC Frequency Detector

Model	Part No.	Input Frequency Range
EACD-1	4208010	0 to 130 Hz