SOLENOID DRIVER CARD

Working as the backbone of our ROV system valve packs, the Kystdesign designed valve driver card has proven over time to extremely reliable. It can run 21 proportional valves and read 8 analog sensors.
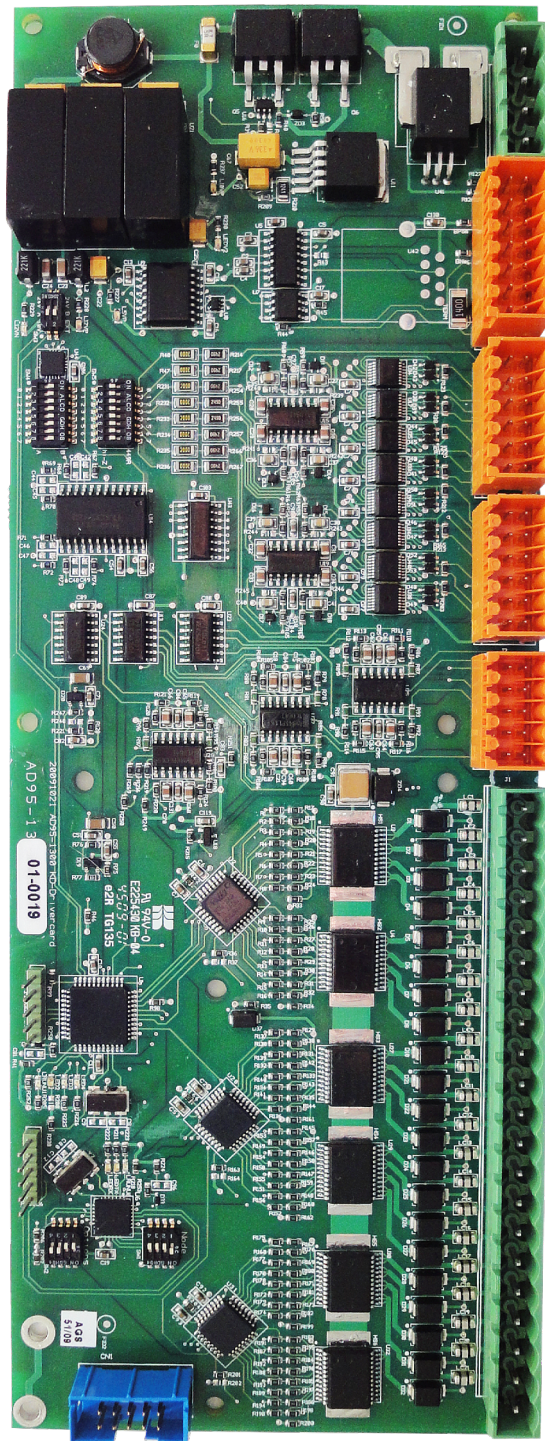
The card is based upon years of experience and is made to withstand harsh environment.

MAIN FEATURES:
- 24V operation
- 21 x PWM outputs
- 10 x 0-10V outputs
- 16 x Analog inputs (4-20mA / 0-10V)
- 16 x analog sensor supplies
- RS232 / 485 and Ethernet comms
- Addressable
- All outputs are short circuit protected
- Extention card available
- Pressure tolerant to 3000 msw
- Size 9 x 25 cm

PART NO:

100753	AD95 DRIVER CARD

KYSTDESIGN
SUB-SEA TECHNOLOGY

KD-CON™ MASTER CARD
PIN-OUTS

1	3	5
○	○	○
○	○	○
2	4	6

J1-10 LIGHTS

HOUSING: WAGO 713-1103/0037-9037
Fields marked in orange are not currently implemented (future use)

PIN	NAME	DESCRIPTION	AWG
1	AC LINE	Switched AC voltage supply output – LIGHT	16-20
2	DATA- (RD)	LIGHT Comms interface - RS232 Receive Data / RS485 Data-	20-26
3	AC GND	Switched AC voltage supply output – LIGHT	16-20
4	0V REF	LIGHT Comms interface - Signal 0V Reference RS232/485	18-24
5	AC NEUT	Switched AC voltage supply output – LIGHT	16-20
6	DATA+ (TD)	LIGHT Comms interface - RS232 Transmit Data/RS485 Data+	20-26

1	3	5	7	9
○	○	○	○	○
○	○	○	○	○
2	4	6	8	10

J12 POD

HOUSING: WAGO 713-1105/0037-9037

PIN	NAME	DESCRIPTION	AWG
1	RS232 0V REF	SKID Comms interface 0V reference	18-24
2	SUPPLY 0V	Board Voltage Supply 0V	18-24
3	SUPPLY +24V	Board Voltage Supply +24V	18-24
4	RS232 DOWN-LINK	SKID Comms interface Downlink	20-26
5	RS232 UPLINK	SKID Comms interface Uplink	20-26
6	RS485 DATA+	Board Comms interface RS485 Data Plus	20-26
7	RS232/485 0V REF	Board Comms interface 0V reference RS232/RS485	18-24
8	RS485 DATA-	Board Comms interface RS485 Data Minus	20-26
9	RS232 TD	Board Comms interface Transmit Data	20-26
10	RS232 RD	Board Comms interface Receive Data	20-26

1	2	3	4
5	6	7	8

J11 SKID

HOUSING: MOLEX 39-01-2080 (39-01-2085)
TERMINALS: 55750-3111(16AWG) AND 45750-1111(18-20AWG)

PIN	NAME	DESCRIPTION	AWG
1	RS232 UPLINK	SKID Comms interface – Uplink Signal Direction	20-26
2	RS232 0V REF	SKID Comms interface – Signal 0V Reference RS232/485	18-24
3	RS232 DOWN-LINK	SKID Comms interface – Downlink Signal Direction	20-26
4	AC GND	Switched AC voltage supply output – SKID	16
5	AC NEUT	Switched AC voltage supply output – SKID (2 x 16AWG)	16
6			16
7	AC LINE	Switched AC voltage supply output – SKID (2 x 16AWG)	16
8			16

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

Warning! All dual AC supply pins needs to be terminated by 16AWG wire (1,5mm2). Else connector will fail.

J13 TERM

HOUSING: MOLEX 39-01-2080
TERMINALS: 45750-3111(16AWG) AND 45750-1111(18-20AWG)

PIN	NAME	DESCRIPTION	AWG
1		No Connection	
2	LEAK 0 SHIELD	LEAK 0 Cable Shield (0V)	18-24
3	LEAK 0 REF	LEAK 0 Signal Reference (0V)	18-24
4	LEAK 0	LEAK 0 Signal (activated when shorted to 0V reference)	18-24
5	RTD-1	PT100 Temperature Sensor – Terminal A1	20-26
6	RTD-2	PT100 Temperature Sensor – Terminal A2	20-26
7	RTD-3	PT100 Temperature Sensor – Terminal B	20-26
8	AC GND	AC input – GND	16
9	AC LINE	AC voltage supply input – J1-10 LIGHTS	16
10			16
11	AC NEUT	AC voltage supply input – J1-10 LIGHTS	16
12			16
13	AC LINE	AC voltage supply input – J11 SKID	16
14			16
15	AC NEUT	AC voltage supply input – J11 SKID	16
16			16