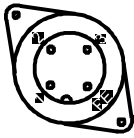
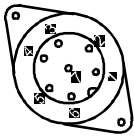


## 1. Power Connector J10, AC Input



Pin	AC Input	Color
1	Neutral	blue
2	Phase	brown
3	NC	NC
PE	Protection Earth	yellow/green

## 2. Power Connector J10, DC Input

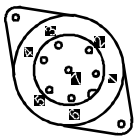


Pin	DC Input
1	V_SUPPLY (15 VDC regulated)
2	V_GND
3	NC
4	NC
5	NC
6	V_EBATT (External battery 12 VDC)
7	V_GND

## 3. Option Connector J20



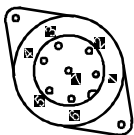
Depending on the instrument options either the GPS signals (RS-232 or RS-485) or the alarm signals are available on this connector (see below table).



Pin	GPS (RS-232)	GPS (RS-485)	Alarm*
1	G_TX	G_485_TX_H	AL_1
2	G_RX	G_485_RX_H	AL_2
3	-	G_485_TX_L	AL_3
4	-	G_485_RX_L	AL_4
5	GPS_SYNC	GPS_SYNC	-
6	GPS_POWER	GPS_POWER	-
7	GND	GND	AL_GND

\*: if not on J40 interconnection

## 4. RS-232 Connector J30

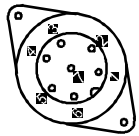


Pin	Signal
1	TXD1
2	RXD1
3	TRANSMIT
4	NC
5	NC
6	V_MAIN
7	GND

## 5. Interconnection Connector J40



Depending on the instrument options either alarm signals, network signals, modem / telephone signals or external battery inputs are available on this connector (see below table).



Pin	Alarm 1	Alarm 2	Network	Modem	External Battery
1	AL_1	AL_1.1	TX_H	TT_TIP	-
2	AL_2	AL_1.2	RX_H	TT_RING	-
3	AL_3	AL_2.1	TX_L	-	-
4	-	AL_2.2	RX_L	-	-
5	-	AL_3.1	N_PWR / TRIGGER_OUT	-	-
6	-	AL_3.2	N_SYNC / TRIGGER_IN	-	V_EBATT
7	AL_COM	-	N_GND	-	V_GND

### Alarms:

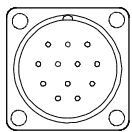
In the standard configuration the internal alarm relays switch contacts as following:

- Threshold Alarm Low: AL\_1 to AL\_COM
- Threshold Alarm High: AL\_2 to AL\_COM
- Error: AL\_3 to AL\_COM

Optionally it is possible to configure also separate relay contacts:

- Threshold Alarm Low: AL\_1.1 to AL\_1.1
- Threshold Alarm High: AL\_2.1 to AL\_2.1
- Error: AL\_3.1 to AL\_3.1

## 6. Sensor Connector J50



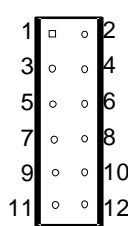
Pin	Signal	Colour (cable DIN47100)
1	SENS_X_HI	white
2	SENS_X_LO	brown
3	SENS_Y_HI	green
4	SENS_Y_LO	yellow
5	SENS_Z_HI	grey
6	SENS_Z_LO	pink
7	S_TEST	blue
8	GND	red
9	POWER (+12 volts)	black
10	POWER_GND	purple
11	SENS_SWI*	grey-pink
12	AGND(signal ground)**	red-blue

\*: SENS\_SWI is either S\_MODE or V\_REF (reference voltage, 2.5V).

\*\* : Connector housing is connected to Earth.

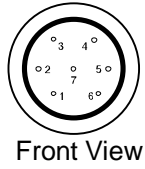
## 7. Internal Sensor Connector J52

	<b>Pin</b>	<b>Signal</b>
	1	SENS_X_HI
	2	SENS_X_LO
	3	SENS_Y_HI
	4	SENS_Y_LO
	5	SENS_Z_HI
	6	SENS_Z_LO
	7	SENS_TEST
	8	GND
	9	POWER (+12 volts)
	10	POWER_GND
	11	SENS_SWI*
	12	AGND (signal ground)



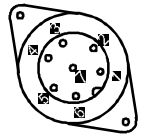
\*: SENS\_SWI is either S\_MODE or V\_REF (reference voltage, 2.5V).

### 8. GPS Cable Wiring



Pin	Binder (693), male	Wiring Colour	Extension Cable Wiring Colour
1	RXD1	blue	white
2	TXD1	white	brown
3	RXD2 (not used)	green	-
4	TXD2 (not used)	purple	-
5	NMEA (GPS_SYNC)	grey	green
6	VIN	red	yellow
7	GND	black	grey
-	not used	yellow	-
-	not used	shield	-

### 9. RS-232 Cable Wiring J30



Pin	Binder (693), male	Pin	D-Sub 9 female	Pin	D-Sub 25 female
1	TXD	2	RXD	3	RXD
2	RXD	3	TXD	2	TXD
3	TRANSMIT				
4	DSR (not used)	4, 6	DTR, DSR	20, 6	DTR, DSR
5	CTS (not used)	7	RTS	4	RTS
6	RTS	8	CTS	5	CTS
7	GND	5	GND	7	GND