

Application Note

Date: 12. April 2010

Subject: Order numbers and pinout of ODU plugs of ADU-07e

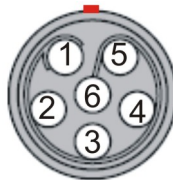
Product	Metronix Order No.	ODU Order No.
Multi Purpose Plug ODU-K Series Size 3 complete set	9094-0200-00	Set compiled by Metronix
Protection cap	2007-0070-00	723097004215000
Tension relief yellow	2007-0071-00	703023204965060
Plug Size 3 Series K 30-pole	2007-0072-00	S23KOC-T30MFG0-700S
E-Field Plug ODU K-Series Size 2 complete set	9094-0202-00	Set compiled by Metronix
Protection cap Size 2	2007-0063-00	722.097.004.215.000
Tension relief blue for E-field cable	2007-0066-00	702.023.206.965.040
Plug Size 2 Series K 6-pole	2007-0062-00	S22K0N-T06MPH0-400S
H-Field Plug ODU K-Series Size 2 complete set	9094-0201-00	Set compiled by Metronix
Protection cap Size 2	2007-0063-00	722.097.004.215.000
Tension relief green for H-field cable	2007-0067-00	702.023.205.965.060
Plug Size 2 Series K 10-pole	2007-0065-00	S22K0N-P10MJG0-700S

The wiring scheme of the connectors is shown below:

E-Field Cable Connector of ADU-07e

Plug 6-pole ODU MiniSnap S22K0N-T06MPH0-400S Pin	Signal
1	+12V
2	-12V
3	Sensor GND
4	Sensor GND
5	n.c.
6	Input (+ or -)

Pin-out of E-Field plug of ADU-07e



Pinning of E-Field Plug - rear view (to solder cups)



For standard E-field cables it is only required to connect pin Nr. 6

H-Field Connectors of ADU-07e

Socket 10-pole ODU MiniSnap S22K0N-P10MJG0-700S Pin	Signal
1	+12V
2	-12V
3	H-Chop
4	Sensor GND
5	Cal Signal+
6	Cal Signal -
7	Input +
8	Input -
9	I ² C SDA
10	I ² C SCL

Pin-out of H-field plug for the magnetometer input of ADU-07e



Note: Pin 7 is the positive input and Pin 8 the negative input of the differential amplifier input stage. If you do not have a symmetrical output on the sensor you should connect Pin 7 to Signal Out and Pin 8 to Signal GND of your sensor.



Pinning of H-Field cable plug (rear view on solder cups)

Multi-Purpose Socket of ADU-07e

Plug ODU MinSnap 30 pole S23KOC-T30MFG0-7000	Signal
1	+12V
2	-12V
3	Sensor GND
4	Sensor GND
5	Input A +
6	Input A -
7	Input B +
8	Input B -
9	Input C +
10	Input C -
11	Input D +
12	Input D -
13	Input E+
14	Input E -
15	Cal Signal +
16	Cal Signal -
17	n.c.
18	HCHOP CH7
19	HCHOP CH8
20	HCHOP CH9
21	I ² C_SDA5
22	I ² C_SCL5
23	I ² C_SDA6
24	I ² C_SCL6
25	I ² C_SDA7
26	I ² C_SCL7
27	I ² C_SDA8
28	I ² C_SCL8
29	I ² C_SDA9
30	I ² C_SCL9

Pinout and signals of multi purpose cable plug of ADU-07e.



Pinning of Multi-Purpose cable plug (rear view on solder cups)