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ROUND INDICATORS – INDU

Part nm.	Name	Atribute	Description	Price €
Round instruments standard size and fit: 57 mm (2.25") or 80 mm (3.15")				
20003586	**Altimeter 57**	(master)	Round **standalone** (master) altimeter with internal pressure sensors. One needle + color LCD display. Scale in feet or meters.	450
20003579	**Altimeter 57**	(slave)	Round **slave** altimeter. Requires some PFD (Nesis, Emsis, Aetos or Horis) to be present on the CAN bus.	350
20003616	**Altimeter 80**	(master)	Round **standalone** (master) altimeter with internal pressure sensors. Two needles + color LCD display. Scale in feet or meters.	450
20003623	**Altimeter 80 (Battery)**	(master, battery)	Integrated **backup battery** option. The backup can also handle and additional indicator – typically airspeed indicator.	550
20003609	**Altimeter 80**	(slave)	Round **slave** altimeter. Requires some PFD (Nesis, Emsis, Aetos or Horis) to be present on the CAN bus. Scale in feet or meters.	350
20012014	**Vertical speed Indicator**	(57 mm, master)	57 mm round **standalone** vertical speed indicator with integrated pressure sensor.	450
20011987	**Vertical speed Indicator**	(57 mm, slave)	57 mm round **slave** vertical speed indicator. Requires master altimeter or some PFD (Nesis, Emsis, Aetos or Horis) to be present on the CAN bus.	350
20011970	**Vertical speed Indicator**	(80 mm, master)	80 mm round **standalone** vertical speed indicator with integrated pressure sensor.	450
20011956	**Vertical speed Indicator**	(80 mm, slave)	80 mm round **slave** vertical speed indicator. Requires master altimeter or some PFD (Nesis, Emsis, Aetos or Horis) to be present on the CAN bus.	350
20003449	**Airspeed Indicator**	(57 mm, master)	57 mm round **standalone** (master) airspeed indicator with internal pressure sensors. [standard 320 km/h max].	450
20014162	**Airspeed Indicator**	(57 mm, master, OAT)	57 mm round **standalone** (master) airspeed indicator with internal pressure sensors and outside air temperature digital sensor. When static pressure (altitude) is present on the CAN bus, **OAT** sensor enables TAS as well.	500
20003463	**Airspeed Indicator**	(57 mm, slave)	57 mm round **slave** airspeed indicator. Requires some PFD (Nesis, Emsis, Aetos or Horis) to be present on the bus.	350
20003432	**Airspeed Indicator**	(80 mm, master)	80 mm round **standalone** (master) airspeed indicator with internal pressure sensors. [standard 320 km/h max].	450
20003401	**Airspeed Indicator**	(80 mm, master, OAT)	80 mm round **standalone** (master) airspeed indicator with internal pressure sensors and outside air temperature digital sensor. When static pressure (altitude) is present on the CAN bus, **OAT** sensor enables TAS as well.	500
20003371	**Airspeed Indicator**	(80 mm, slave)	80 mm round **slave** airspeed indicator. Requires some PFD (Nesis, Emsis, Aetos or Horis) to be present on the bus.	350
20005221	**Combo**	(57 mm, master)	57 mm combined instrument: IAS, altitude, vertical speed indicator. You need to specify arc colors at the time of order.	550
20005214	**Combo**	(57 mm, slave)	57 mm round **slave** Combo indicator. Requires some PFD (Nesis, Emsis, Aetos or Horis) to be present on the bus. You need to specify arc colors at the time of order.	350
20005207	**Combo**	(80 mm, master)	80 mm combined instrument: IAS, altitude, vertical speed indicator. You need to specify arc colors at the time of order.	550
20005191	**Combo**	(80 mm, slave)	80 mm round **slave** Combo indicator. Requires some PFD (Nesis, Emsis, Aetos or Horis) to be present on the bus. You need to specify arc colors at the time of order.	350
20014001	**G-meter**	(57 mm, master)	57 mm round **standalone** G meter indicator.	450
20006747	**G-meter**	(57 mm, slave)	57 mm round **slave** G meter indicator. Requires some PFD (Nesis, Emsis, Aetos or Horis) to be present on the bus.	350
20006761	**G-meter**	(80 mm, master)	80 mm round **standalone** G meter indicator.	450
20014179	**G-meter**	(80 mm, slave)	80 mm round **slave** G meter indicator. Requires some PFD (Nesis, Emsis, Aetos or Horis) to be present on the bus.	350
20011697	**Tachometer**	(57 mm, master)	57 mm round **standalone** RPM indicator.	370
20011765	**Tachometer**	(57 mm, slave)	57 mm round **slave** RPM indicator. Requires **EMS** to be present on the CAN bus.	350
20011727	**Tachometer**	(80 mm, master)	80 mm round **standalone** RPM indicator.	370
20011703	**Tachometer**	(80 mm, slave)	80 mm round **slave** RPM indicator. Requires **EMS** to be present on the CAN bus.	350

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DIGI

Part num.	Name	Atribute	Description	Price €
Affordable display and EMS				
20006020	**DIGI**	(master)	Engine monitoring display (with internal memory). Requires **EMS** to be present on the CAN bus.	550
20006013	**DIGI**	(slave)	Slave engine monitoring display (no internal memory). Requires **EMS** to be present on the CAN bus.	550
20006273	**EMS***	(Classic Daqu)	Daqu engine monitoring system unit for all carbureted engines up to 6 cylinders.	480
20006259	**EMS***	(Mini Daqu)	Mini Daqu engine monitoring system unit for modern engines with ECU such as Rotax 912iS, 915iS, UL power, MW-fly.	480
20006327	**EMS***	(Daqu ECU)	Daqu ECU engine monitoring system unit for modern engines with ECU, when additional measuring points are needed.	480

HORIS

Part num.	Name	Atribute	Description	Price €
AD-AHRS electronic device for standard 57 / 80 mm cutout.				
20006990	**HORIS PFD**	(57 mm)	HORIS – standalone unit with integrated sensors, 57 mm (2.25") panel hole diameter. Includes internal AD-AHRS module, GPS antenna, OAT probe.	1150
20007034	**HORIS PFD**	(57 mm, battery)	Horis 57 standalone unit with integrated backup battery option.	1250
20006983	**HORIS PFD**	(80 mm)	HORIS – standalone unit with integrated sensors, 80 mm (3.15") panel hole diameter. Includes internal AD-AHRS module, GPS antenna, OAT probe.	1150
20013592	**HORIS PFD**	(80 mm, battery)	Horis 80 standalone unit with integrated backup battery option.	1250
20007096	**HORIS slave**	(57 mm)	Horis – slave unit, 57 mm	610
20014018	**HORIS slave**	(57 mm, battery)	Horis 57 slave unit with integrated backup battery option.	710
20007126	**HORIS slave**	(80 mm)	Horis – slave unit, 80 mm	610
20013608	**HORIS slave**	(80 mm, battery)	Horis 80 slave unit with integrated backup battery option.	710

EMSIS

Part num.	Name	Atribute	Description	Price €
Emsis can be used as PFD (primary flight display) or as EMS (engine monitoring system).				
20006556	**Emsis 80**	(AHRS)	Emsis PFD unit with integrated sensors, 80 mm (3.15") panel hole diameter. Includes internal AD-AHRS module, GPS antenna, OAT probe.	1250
20013912	**Emsis 80**	(no AHRS)	Emsis slave unit, 80 mm (3.15") panel hole diameter. It requires Nesis, Aetos, Horis, Emsis PFD or EMS to be present on the bus (depending on the unit purpose.)	710
20006501	**Emsis 35**	(AHRS)	Emsis PFD unit with integrated sensors, 3.5" panel hole diameter (larger than 80 mm version). Includes internal AD-AHRS module, GPS antenna, OAT probe.	1330
20006495	**Emsis 35**	(no AHRS)	Emsis slave unit, 3.5" panel hole diameter (larger than 80 mm version). It requires Nesis, Aetos, Horis, Emsis PFD or Daqu to be present on the bus (depending on the unit purpose.)	790
20006273	**EMS***	(Classic Daqu)	Daqu engine monitoring system unit for all carbureted engines up to 6 cylinders.	480
20006259	**EMS***	(Mini Daqu)	Mini Daqu engine monitoring system unit for modern engines with ECU such as Rotax 912iS, 915iS, UL power, MW-fly.	480
20006327	**EMS***	(Daqu ECU)	Daqu ECU engine monitoring system unit for modern engines with ECU, when additional measuring points are needed.	480

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AETOS

Part num.	Name	Atribute	Description	Price €
	Aetos		**Engine sensors are not included in this kits.**	
20003289	**Aetos PFD**	(AHRS)	Aetos PFD – screen size 7.0" Aetos comes with integrated AHRS and GPS unit, GPS antenna, OAT probe, cables, accessories. It requires EMS to be present on the bus to display engine parameters.	2410
20003296	**Aetos Slave**	(no AHRS)	Aetos as slave display unit – screen size 7.0"	1520
20006273	**EMS***	(Classic Daqu)	Daqu engine monitoring system unit for all carbureted engines up to 6 cylinders.	480
20006259	**EMS***	(Mini Daqu)	Mini Daqu engine monitoring system unit for modern engines with ECU such as Rotax 912iS, 915iS, UL power, MW-fly.	480
20006327	**EMS***	(Daqu ECU)	Daqu ECU engine monitoring system unit for modern engines with ECU, when additional measuring points are needed.	480

NESIS

Part num.	Name	Atribute	Description	Price €
	Nesis		**Engine sensors are not included in this kits.**	
20009021	**Nesis III-ae PFD**	(size 7", AHRS)	Nesis 7 PFD – screen size 7.0" Nesis comes with integrated AHRS and GPS unit, GPS antenna, OAT probe, cables, accessories. It requires EMS to be present on the bus to display engine parameters.	3710
20009007	**Nesis III-ae PFD**	(size 8.4", AHRS)	Nesis 8.4 PFD – screen size 8.4" Nesis comes with integrated AHRS and GPS unit, GPS antenna, OAT probe, cables, accessories. It requires EMS to be present on the bus to display engine parameters.	4140
20009083	**Nesis III-ae slave**	(size 7", no AHRS)	NESIS 7" Slave unit	2220
20009076	**Nesis III-ae slave**	(size 8.4", no AHRS)	NESIS 8.4" Slave unit	2650
20006273	**EMS***	(Classic Daqu)	Daqu engine monitoring system unit for all carbureted engines up to 6 cylinders.	480
20006259	**EMS***	(Mini Daqu)	Mini Daqu engine monitoring system unit for modern engines with ECU such as Rotax 912iS, 915iS, UL power, MW-fly.	480
20006327	**EMS***	(Daqu ECU)	Daqu ECU engine monitoring system unit for modern engines with ECU, when additional measuring points are needed.	480

Additional units

Part num.	Name	Atribute	Description	Price €
			Optional units for Aetos/ Nesis instruments	
20003739	**Amigo**	(vertical)	Vertical autopilot panel for direct access to Autopilot functions.	750
20003722	**Amigo**	(horizontal)	Horizontal autopilot panel for direct access to Autopilot functions.	750
20010782	**Seru**	(3Nm)	Adds autopilot function for one axsis, 3Nm	540
20010799	**Seru**	(6Nm)	Adds autopilot function for one axsis, 6Nm	540
20008680	**Magu**	(Nose)	Electronic magnetic compass. Adds wind indication and true heading. **Nose** installation	450
20008697	**Magu**	(Tail)	Electronic magnetic compass. Adds wind indication and true heading. **Tail** installation	450
20004217	**Boxi**		BOXI controller for pitch and roll electrical trims, radio transmition.	200
20008413	**Joyu**		JOYU handle adds remote control capability to your Nesis, Aetos or Emsis. In connection with Boxi it enables trim control.	350

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UPS

Part num.	Name	Atribute	Description	Price €
			External backup battery kit	
20002770	UPS-L		External backup Li-ION battery with integrated electronics + double pole switch. Max current 350 mA. Suitable for Indu, Digi, Horis.	200
20002787	UPS-U		External backup lead 1.2 Ah battery + electronics + double pole switch. Max current 2 A. Suitable for Nesis, Aetos	200

ACCESSORIES

Part num.	Name	Atribute	Description	Price €
			Various accessories	
20000424	BLU		CAN bus to bluetooth interface. Essential tool for Horis, Digi and Indu instruments. Allows software updates and some configuration. Requires Android device with Android version 4.4 or above.	75
20006068	DIMU		Dimmer control unit	150

CHARTS

Part num.	Name	Atribute	Description	Price €
			Raster charts	
20005788	C-DFS-D	(Germany)	Visual 500 Germany	89
20005856	C-DFS-NL	(Netherlands)	Visual 500 Netherlands	49
20005832	C-DFS-DK	(Denmark)	Visual 500 Denmark	49
20005894	C-DFS-CH	(Swiss)	Visual 500 Swiss	49
20005771	C-DFS-A	(Austria)	Visual 500 Austria	49
20005849	C-DFS-F (NE)	(France)	Visual 500 France, North East part only	49
20005795	C-DFS-B	(Belgium)	Visual 500 Belgium	49
20005863	C-DFS-P	(Poland)	Visual 500 Poland NW + W	49
20005818	C-DFS-CZ	(Czech Republic)	Visual 500 Czech Republic	49
20005801	C-DFS-CR	(Croatia)	Visual 500 Croatia	49
20014025	C-DFS-HU	(Hungary)	Visual 500 Hungary	49
20005887	C-DFS-SP	(Spain)	Visual 500 Spain	49
20005870	C-DFS-PT	(Portugal)	Visual 500 Portugal	49
20005825	C-DFS-IT	(Italy)	Visual 500 Italy	49
20005900	C-DFS-All		Complete set of all DFS raster charts	239
20000646	C-USR-DIG		User provided digital map source. Geo-referencing and converting.	40
20000653	C-USR-PAP		User provided paper map source. Scanning, geo-referencing and converting.	80

CABLES

Part num.	Name	Atribute	Description	Price €
			Cables	
20000561	C-PWR		Power supply cable	5
20000578	C-PWR-2		Power supply cable v2	5
20002220	C-RR		CAN cable RJ45 connector on both sides. Random length.	20
20004705	C-RB		CAN cable RJ45 connector on one side, Binder (round 5 pole) on the other.	20
20000585	T-CAN		T-CAN, T junction – three RJ45 connections.	25
20000608	C-TP		CAN terminator plug	3
20002275	C-AUD		Audio cable.	5

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SENSORS

Part num.	Name	Atribute	Description	Price €
			Sensors & small accessories	
20010430	S-CR12	(12 mm)	Thermocouple (type J), 12mm ring – (Jabiru).	50
20010447	S-CR14	(14 mm)	Thermocouple (type J), 14mm ring	50
20010454	S-CR18	(18 mm)	Thermocouple (type J), 18mm ring	50
20002329	S-CBLY		Thermocouple adjustable bayonet (type J), 3/8"-24, tip 2 1/2" x 3/16" – (Lycoming).	70
20010492	S-ESRTX		Thermocouple (type K), M8x1 screw type – (Rotax).	50
20010461	S-EGT-HC-20	(Clamp size: 20-32)	Thermocouple (type K), hose clamp ¾ - 1 ¾" – (Rotax).	50
20010478	S-EGT-HC-25	(Clamp size: 25-40)	Thermocouple (type K), hose clamp ¼ - 1 ¼" – (Jabiru).	50
20010485	S-EGT-HC-40	(Clamp size: 40-60)	Thermocouple (type K), hose clamp ½ – 2" – (Lycoming).	50
20010676	S-TVDO	(1/8-27 NPT)	Oil or water temperature probe VDO (0 to 150 °C), 1/8-27 NPT – (Rotax, Jabiru).	50
20010669	S-TVDO	(M10*1.5)	Oil or water temperature probe VDO (0 to 150 °C), M10x1.5 – (Rotax).	50
20002343	S-OWLYC		Oil temperature (100-150 °F), 5/8-18 UNF – (Lycoming).	50
20010515	S-OAT		Outside air temperature digital sensor 1,5m.	50
20002312	S-CAT		Carburetor temperature sensor NPT, (thread ¼ x 28").	70
20010300	S-PR-150	(150 psi)	Active pressure sensor (0 to 10 bar), 1/8-27 NPT – (all engines).	200
20010294	S-PR-15	(15 psi)	Active pressure sensor (0 to 15 psi), 1/8-27 NPT – (all engines).	200
20011598	S-FFIT8	(8 mm)	Fuel pressure sensor fitting – 8 mm hose.	25
20011581	S-FFIT6	(6 mm)	Fuel pressure sensor fitting – 6 mm hose.	25
20002367	S-ROTOR		Rotor RPM – proximity sensor, 12-24V.	70
20010263	S-FT60		Fuel flow transducer (red cube)	280
20010218	S-CT30	(+/- 30 A)	For currents up to -/+30 A.	60
20010225	S-CT60	(+/- 60 A)	For currents up to -/+60 A.	60
20003814	C-GPS		GPS antenna + standard length cable.	20

SERVICES

Part num.	Name	Atribute	Description	Price €
			Various services	
20009984	SCALE REPLAC.	INDU	Custom scale replacement for indicator (Altimeter excluded)	120
20014032	SCALE REPLAC.	Altimeter	Custom scale replacement for Altimeter	160
20008543	LCD REPLAC.	Indu	LCD replacement (Indu)	120
20008536	LCD REPLAC.	Horis	LCD replacement (Horis)	120
	LCD REPLAC.		LCD replacement (Horis 57 (old model))	700
20014049	AIRU REPLAC.		AD-AHRS module replacement	350
20002510	SERVICE		Various instrument repairs – working hour	80
20001148	EMSIS LAYOUT		Emsis layout programming – working hour	100
20014056	PROGRAMMING		Programming custom features – working hour	120
20012434	NESIS UPGRADE		Nesis upgrade program (price individually calculated)	n/a

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