

DPS

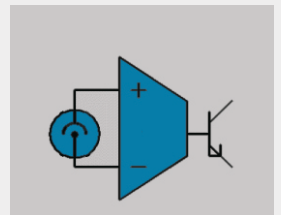
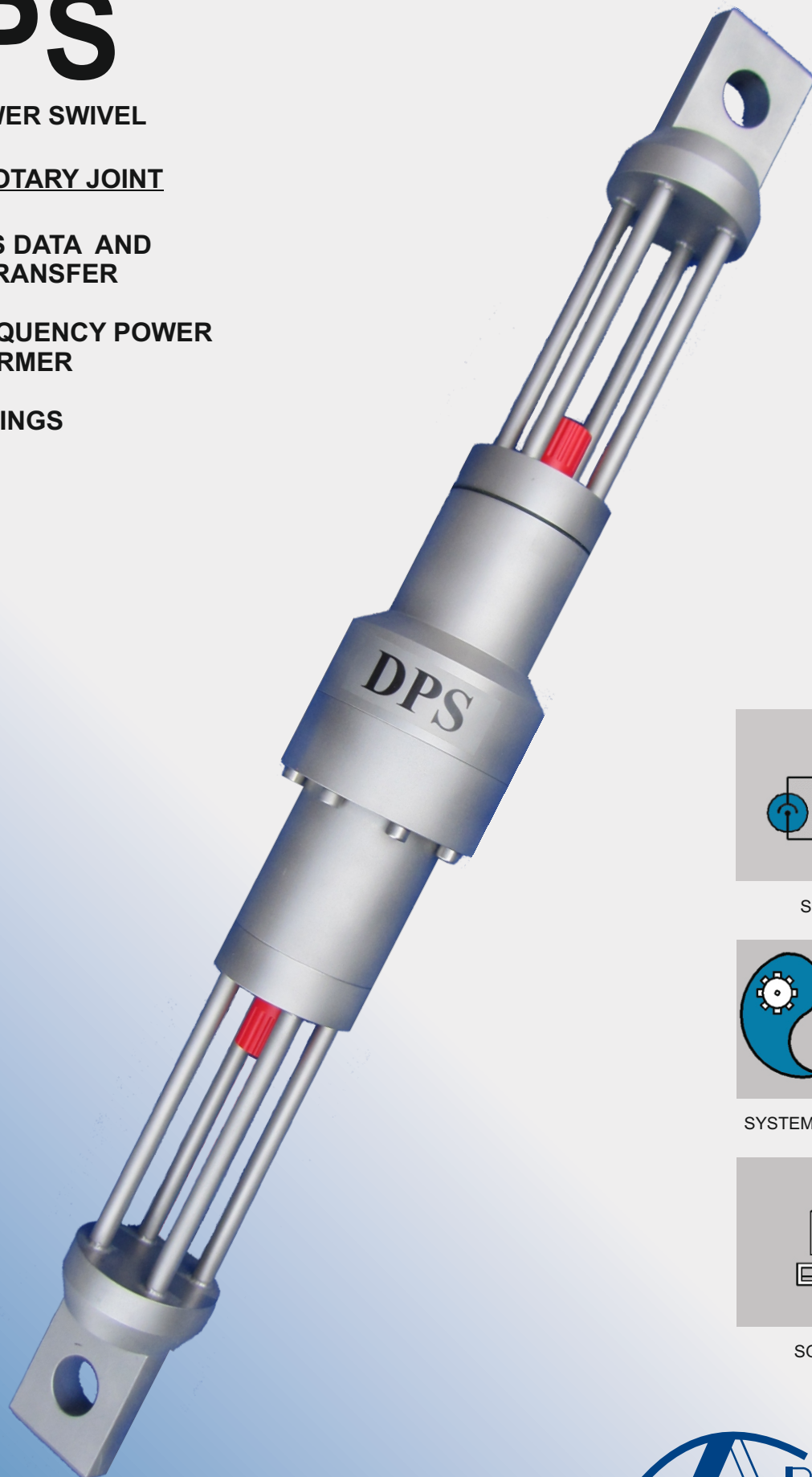
DATA POWER SWIVEL

ARGUS ROTARY JOINT

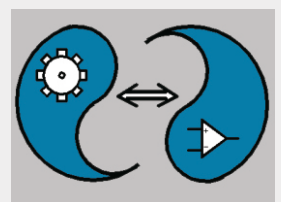
WIRELESS DATA AND
POWER TRANSFER

HIGH FREQUENCY POWER
TRANSFORMER

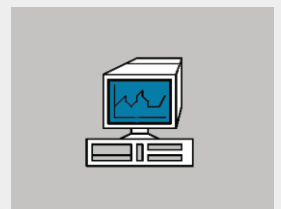
NO SLIP RINGS



SENSORS



SYSTEM TECHNOLOGY



SOFTWARE

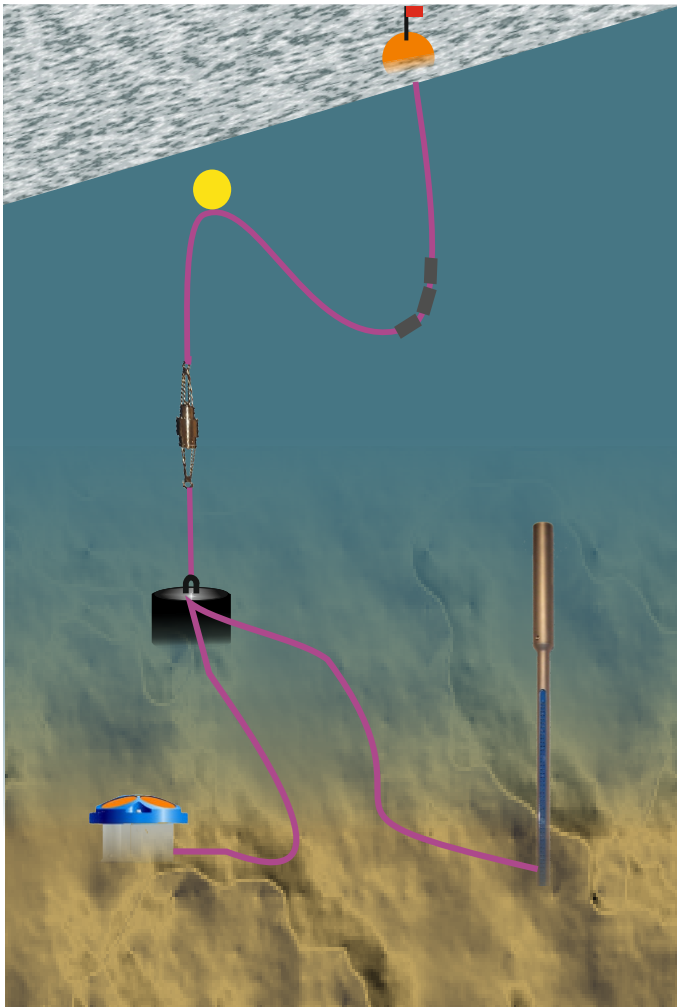


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DPS

To minimize the risk of cable breakage ARGUS developed a novel DATA-POWER-SWIVEL (DPS) which can handle tensions above 4 tons. The rotary joint contains an optical data unit. The data transfer is 115.2 kb/s half duplex. The serial data in- and output is a RS485, RS 422 and RS232. With RS 422 and RS485 the cable can be as long as 1.300 m depending on the cable quality (twisted pair). Another interesting feature is the possibility of powering up instruments or charging batteries mounted on a submerged frame. The swivel contain a DC/DC converter which transforms power through an air gap (water gap). Thus the swivel galvanically isolates the floating system from the submerged part.

Technical data:



Tensile strength:	4 tons (4000kg) other strength on request
material:	Titanium
cable length:	1.300 m max.
pressure:	80 m maximum deployment depth, other ranges on request
dimensions:	700 mm length, 90 mm Diameter
weight:	5 kg
data transfer:	serial: rs 485, 422, 232 (115.2 kb/s)
power transfer:	DC/DC fly back converter
efficiency :	70 % max.
power over gap:	20 watt
voltage:	11...17 vdc input 15 vdc output
current:	2.0 amps. max low power 40mA
additional:	energy management

All moving parts utilize water-lubricated ceramic balls and plain bearings made of teflon and delrin. These parts can be easily replaced if worn down. Therefore the unit contain no o-ring seals and runs oil-free.

Special cable mouldings are available on request.

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