SafePilot
Control Unit

FEATURES

The SafePilot Control Unit is a GNSS base station onboard the FSRU/FPSO/FLNG that transmits GNSS corrections to the CAT MAX onboard the tanker and tug.

The SCU has 8 serial ports, 6 digital outputs, 6 digital inputs and 4 multi-configurable analog inputs for interfacing to other systems on the FSRU/FPSO/FLNG.

Options:

  I Heading by adding a second GNSS receiver - antenna
  I Excursion monitoring
  I Heave / Roll / Pitch
  I ESD
  I Multiple tankers
  I SPM
  I TUG integration
  I STS operation

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APPLICATIONS

For offloading operations, giving a bird's eye view of the operation which involves sharing additional information like environmental, hawser load, mooring load or product flow. It assures centimeter accuracy speeds and distances between the various stakeholders in the operation.

Built-in UHF radio allows exchange of information between all parts in the operation using TDMA.

The following are some examples of information exchanged in offshore operations.

| Environmental Data
| Hawser Load
| Product Data (flow, temperature, etc.)

INTERFACES	NO.	INTERFACE
Serial ports	8	RS232/422/485
Digital outputs	6	N/C or N/O relay
Digital inputs	6	0 – 30VDC
Analog inputs	4	4-20mA/0-5v/Load cell
Ethernet	4/1	RJ45 (4 on back, 1 on front)

SPECIFICATIONS	
Lightening protection	GNSS & UHF has lightening arresters installed internally
Operating temperature range	-10 - +50deg. celcius
IP classification	IP20
Weight	14.5kg
Size (HxWxD)	254x483x435mm (6U Rackmount)
Supply	90-240VAC, 50/60Hz.
Power consumption	65w

GNSS RECEIVER	
Systems	GPS/GLONASS/GALILEO (optionally Beidou)
Frequencies	L1 – L2

UHF RADIO	
Frequency Range	403-473 MHz.
Channel Spacing	25 kHz.
Transmission Power	Default 0.5w (max. 1w)
Modulation	4FSK

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