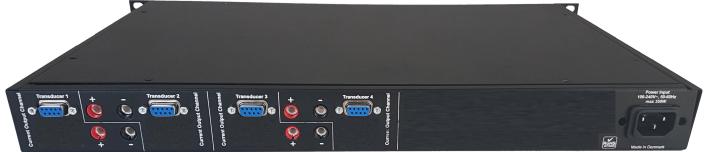
Complete 4-channel system interface unit for ultra-stable, high precision fluxgate technology DS series current transducers.

Powers up to 4 x DS50 to DS2000 at the same time.





Features

- Compact 19" rack mount 1U height
- Current transducers' output signals available via 4mm banana plugs (Only current output)
- Front LEDs indication of normal operation for each transducer and power LED for DSSIU-4-1U
- Universal autorange (100-240V AC 50/60Hz) AC input voltage or 120–370V DC input voltage.

Specifications

Parameter	Symbol	Unit	Min	Тур.	Max	Comment
Mains input						
AC input voltage	V_{AC}	V_{rms}	85		264	Autoranging
AC nominal current	I _{AC}	I _{rms}			1.6A@ 115V 0.7A@ 230V	Full scale operation with 4 DS2000 and 3000A primary
Frequency	f	Hz	47		63	Autoranging
Transducer output port						
Supply voltage	U _{cc}		±14.7 5		±15.75	x4 channels
Ripple		mV_{rms}			15	
Environment and Mechanical						
Ambient operating temperature range	T _a	°C	5		40	
Storage temperature range		°C	-20		85	
Relative humidity		%	20		80	
Mass		Kg		4.6		
Size (W x H x D)		mm				483 x 44 x 271

Channel configuration

Each channel does have 3 connectors.

- Transducer (DSUB9) for connection to the transducer
- RED + (4mm Banana) is positive output from the measured current
- BLACK (4mm Banana) is negative output from the measured current

Current output configuration

The DSSIU-4-1U will send the measured current to the RED and BLACK 4mm banana jacks.

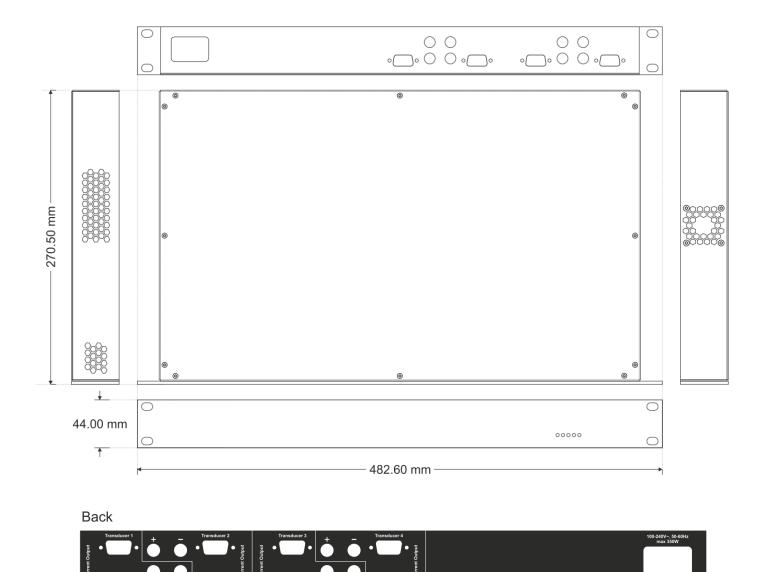
RED being connected to pin 6 on the transducer.

BLACK being connected to pin 1 on the transducer.

Environmental, safety and mechanical specifications

Parameter	Unit	Min	Тур	Max	Comment		
Altitude	m			2000			
Usage					Designed for indoor use		
Polution Degree				2			
Ambient operating temperature range	°C	5		40			
Storage temperature range	°C	0		60			
Relative humidity	%	20		80	Non-condensing		
Mass	kg		5.0				
Connections	DSUB9 female for transducer connection 4mm banana (red and black) jacks for output of measured current from transducers 4mm banana (Yellow) jacks for connection of calibration current to transducer DSUB15 female for status information IEC inlet for mains connection						
Standards	IEC61326-1 EMC IEC61010-1:2010 3rd Edition						
External devices	Only connect Danisense transducers to the DSSIU-4-1U						
Cleaning	The unit should only be cleaned with a damp cloth. No detergent or chemicals should be used.						

Mechanical Dimensions







User Guide

Intended use:

The DSSIU-4-1U is designed to work with Danisense transducers with DSUB9 connection powered by +/-15V.

Instruction for use:

- 1.Do not power up the device before all cables are connected.
- 2. Only use cable provided by Danisense to ensure correct wiring and dimension of cable.
- 3. Ensure that it is easy to unplug the mains cord in case of system problems.
- 4. Place the primary conductor through the apperture of the transducer(s)
- 5. If the DSSIU-4-1U is intended for desk use, mount the rubber feet which are part of the package.
- 6.If the DSSIU-4-1U is intended for Rack mounting, use the screw kit for mounting and do not mount the rubber feet.
- 7. Connect a Danisense DSUB cable between DSSIU-4-1U and each sensor
- 8.Connect a low impedance amperemeter, measuring resistor or power analyzer on the secondary output (4mm red and black connectors)
- 9.Ensure that no calibration connectors are attached when measuring primary current. Always avoid to create a calibration short circuit, between + and calibration connection.
- 10. There is a risk of electrical shock if an uninsulated busbar with high voltages is touching the metal enclosure of the transducer. Please ensure before powering up the system that no primary busbar can touch the metal enclosure.
- 11. When all connection are secured connect mains power with the mains cable delivered. If other cables are used ensure that the cable has sufficint rating for operation.
- 12. Apply primary current

Safety Instructions:

DO NOT TRY TO DISASSEMBLE THE UNIT.

If the green transducer diode is not operating when the system is powered up, disconnect power and contact Danisense for further instruction.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired..

Indications:

When mains is applied the left light diode on the front under the power symbol will light green.

For each sensor channel connected a green light diode will light on the front if the connection is correct and the sensor is operating within normal range.

