USER GUIDE
STOX2 Amplifier Unit

Specification:

RS232 interface
  9600 baud
  8 bit
  Parity None
  1 Stop Bit

Power supply
  8-20V
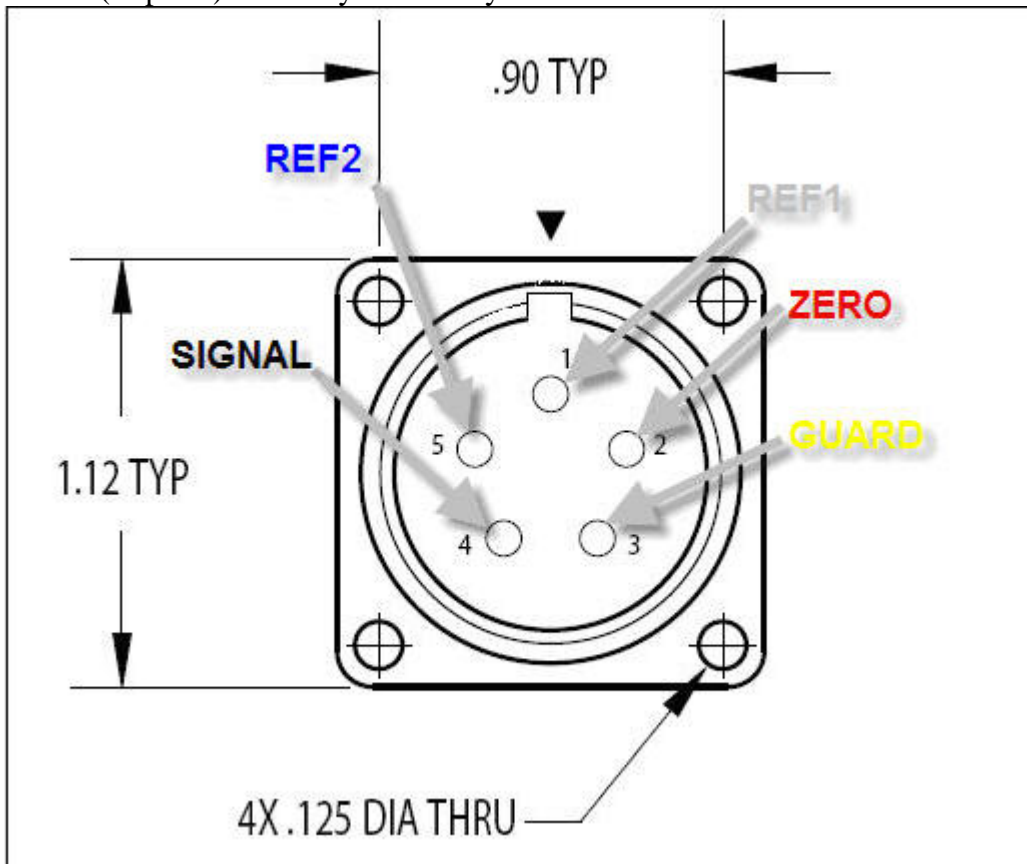 47 mA in normal operation
  8   mA in Power Down

Sync signal
  0 V ZERO1 = -0.8V
  5 V ZERO1 = 0V

Amplifier
  Galvanic isolation
  Gain 1.1mV/pA ±30%
  Offset 240mV ±20%
  Bandwidth ? Hz
  Settle time ? Sec.

PinOut:

Sensor (Impulse) Set fra cylinderens yderside

Pin	1 REF1	Standard -0.8V reference signal
	2 ZERO	Battery powered -0.8V ref. signal, can be turned off by software control.
	3 GUARD	Standard Guard signal, common for all ref signals
	4 SIGNAL	Sensor input signal
	5 REF2	Battery powered -0.8V ref. signal, always on.

Power/Com (Subcom)

Pin	1	GND	(Black)
	2	+8-20Vdc	(White)
	3	Sync Out	(Red)
	4	Tx	(Green)
	5	Rx	(Orange)
	6	Analog sensor Signal	(Blue)
	7	Signal GND (Optional – contact Unisense A/S)	(White/Black)
	8	GND	(Red/Black)

Battery
The unit is equipped with a back up battery, that maintains a constant reference voltage on ZERO1 and REF1 when no power is connected. The battery has an expected lifetime of 10 years, when no current is drawn from the outputs. Contact Unisense A/S for replacement.

SW interface

Advanced Serial Port Monitor 3.5.0 build 29

Edit Options Data source Mode Plugins Help

COM port COM4   Baud rate 9600   Data bits 8

Parity type None   Stop bits 1   Auto delay ☐   450

Send   ⊗ Close

```
<AU>
<AUTO>
<MA>
<MANUAL>
<PD>
<POWER DOWN>
<ST>
<STORE SETTINGS>
<TH010>
<Time High:  10
<TL010>
<Time Low:  10
<ZH>
<ZERO=-0.8V>
<ZL>
<ZERO=0V>
<IN>
2008 (C) Unisense A/S - STOX Controller V1.0
Mode: P    Time Low:  10    TimeHigh:  10
```

Write to file ▾   ⌫ Clear   ▬▬▬ ▭▭▭ ▭▭▭ ▭▭

COM is opened   Mode> Manual   Source> String   >> Bytes received :1

Program settings

String that completes a data packet

Termination string or character while receiving

- ( ) #0D - CR
- ( ) #00 - NUL
- ( ) #0A - LF
- ( ) Custom #0A#0D
- ( ) #0D#0A - CR+LF
- (•) #0A#0D - LF+CR
- ( ) None

Termination string or character while transmitting

- ( ) #0D - CR
- ( ) #00 - NUL
- ( ) #0A - LF
- (•) Custom #3E#0D#0
- ( ) #0D#0A - CR+LF
- ( ) #0A#0D - LF+CR
- ( ) None

[✓] Add before a data packet while transmitting   <

#3E#0D#0A

Sidebar buttons:
- COM port
- Data flow control
- Signs of end of string
- Files
- View mode

OK   Cancel

Program settings

Data view

COM port

Files

View mode

Window view

Data view

Date/time stamp

System events

View mode of characters with code < 20 Hex

- ● Don't display
- ○ User's format
- ○ As Hex #XX code
- ○ As ASCII character code

View mode of characters with code >= 20 Hex

- ○ Don't display
- ● As same character
- ○ As Hex #XX code
- ○ User's format

User's format `#%d`   Framing characters `<` `>`

Charset of data received

- ○ DOS
- ● Windows

☐ View received packet length

☑ View string that completes a data packet

☑ Highlight data sent on screen

OK   Cancel