UNISENSE

UniAmp Portfolio

Introducing the new UniAmp portfolio for ALL Unisense microsensors!

Innovative amplifier solution providing new unique features and a full new level of user friendliness and performance:

Temperature Compensation
Automatic compensation of changes in measured values caused by small temperature variations.

E²PROM for PlugNPlay
Direct sensor recognition with settings of all sensors & storage of unique data on each sensor incl. calibration values

ALL Unisense Microsensors
fx-6 UniAmp includes channels for pA, mV, T and optical sensors, thus one UniAmp for all our sensors!

STOX sensor support
Measure down to <5nM oxygen with our unique STOX sensor

Ease-of-use, Simple and Smart!

Portfolio

fx-6 UniAmp:	**2x pA, 2x mV, 1x T, 1x Opto**
fx-3 UniAmp:	**1x pA or 1x mV, 1x T, 1x Opto**
x-5 UniAmp:	**2x pA, 2x mV, 1x T**
H₂ UniAmp:	**1x pA for Hydrogen sensor, 1x T**
N₂O UniAmp:	**1x pA for Nitrous Oxide sensor, 1x T**
H₂S UniAmp:	**1x pA for Hydrogen Sulfide sensors, 1x T**
O₂ UniAmp:	**1x pA for Oxygen sensor, 1x T**
pH/Redox UniAmp:	**1x mV for pH or Redox, 1x T**

pA: O_2, H_2, H_2S, N_2O, NO, STOX, mV: pH and Redox,
T: Temperature, Opto: Oxygen fiber optic

With our new UniAmp portfolio we take a step further in ensuring ease-of-use and improving performance of our microsensor range.

Sensor temperature compensation has so far been reserved to optical sensors but using long-time in-house data we now introduce temperature compensation for most of our microsensors.

Compensation covers +/- 3°C from calibration point and thus ensuring you better data. The E²PROM in each sensor sets all values on the amplifier, stores important sensor information with your data, and allows simple and easy storage of sensor specific calibration data.

The meter is USB powered and sensors are immediately polarized when connected. Windows service app initiate automatically when PC connected and allows for fast review of raw data and amplifier settings. Calibration and data logging are done via our SensorTrace Suite apps.
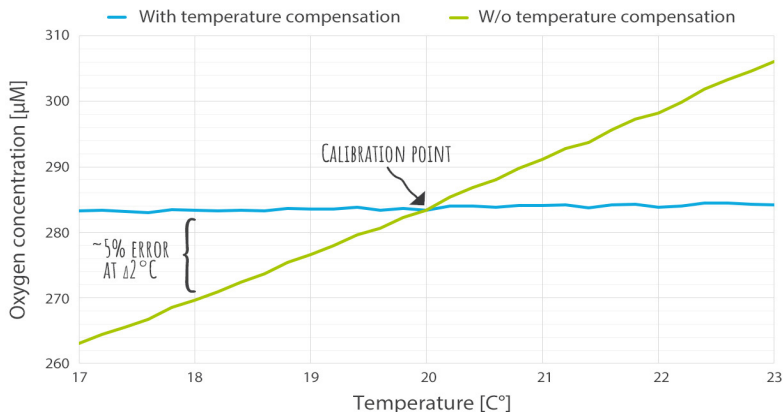
New Smart Snap Connector with 10 pins for full sensor range support and E²PROM!

Easy channel recognition by color and fully automatic and unique sensor identification with stored temperature compensation data.

fx-6 UniAmp

Importance of temperature compensation

SPECIFICATIONS

TYPE		PICOAMPERE	pH/mV	OPTICAL	TEMPERATURE	PRESSURE
INPUT CONNECTORS						
	Sensor	Snap connector 10 pin	Snap connector 10 pin	Optical ST	Snap connector 4 pin	Built-in
	Reference (for mV-channels)	N/A	Banan plug on the cable	N/A	N/A	N/A
	Grounding	Banana plug				
	E²PROM sensor data	Type, Customizations, Serial Number, Calibration, Temperature Compensation				
AMPLIFIER						
	Polarization	Digitally adjust. ±1.8V	N/A	N/A	N/A	N/A
	Input range	±500pA - 500nA	±5000mV	N/A	-10°C - 100°C	300-1200 mbar
	Imput impedance	N/A	>10¹³Ohm	N/A	N/A	N/A
POWER						
	Power supply	USB				
	Specification	5V@500 mA (Max 350 mA draw)				
A/D-CONVERTER						
	Resolution	16 bit	16 bit	16 bit	16 bit	24 bit
	Sampling frequency	Digitally adjustable				
	Maximum frequency	20Hz	20Hz	1Hz	20Hz	0.2Hz
INTERFACE						
	Digital	USB				
	Analog In	2 channels 0-3.3V, 16 bit ADC (optional)				
	Analog Out	6 Channels 0-4V scaled or unscaled				
DATA ACQUISITION SOFTWARE						
	SensorTrace Logger	Included				
	Other Unisense Software	Optional: SensorTrace Suite				
	Software data output	CSV, Excel or SQL file				
PHYSICAL						
	Dimensions	225 x 165 x 50 mm (W x D x H)				
	Weight	Approx. 1.4 kg (3.1 lbs)				
ENVIRONMENTAL						
	Temperature range	Operating conditions 0°C-50°C (<90% RH non-condensing)				
	Warranty	1 year				
CERTIFICATION		CE				