

Sollbrüggenstraße 52 D-47800 Krefeld

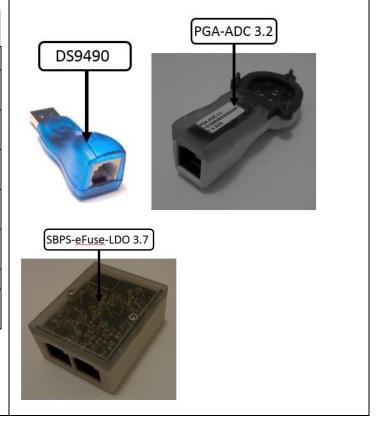
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Electronics for H2 CNI sensors with a precision, zero-drift programmable gain instrumentation amplifier ( $G_{InstrA}$ : 0.125, 0.172, 0.25, 0.344, 0.5, 0.688, 1, 1.375, 2, 2.75, 4, 5.5, 8, 11, 16, 22, 32, 44, 64, 88, 128, 176 V/V) and a 16-bit  $\Delta\Sigma$  analog-to-digital converter with input current cancellation and a bandgap reference with very high accuracy and low thermal drift of 10 ppm/°C (max). It contains a 1K bit EEPROM for storing adjustments and three switchable LEDs (blue, orange, red) as optical signals for different H2 levels. It is operated through a 1-wire bus connector with a personal computer and installed LabVIEW®.

List of Parts				
PART	DESCRIPTION	QUANTITY		
PGA-ADC 3.2	Sensor	1		
	controller	1		
SBPS-eFuse-	Bipolar power	1		
LDO 3.6	source	1		
PS 12Volt	Power supply	1		
	12 Volt	1		
DS9490R	1-Wire USB	1		
	Adapter			
6p6c RJ12 0,3	Cable 6p6c	2		
	RJ12 0,3 m			
Option:				
Gas flow test chamber with ¼" tubes and				
Swagelok®				



Revison History			
Rev.	Date	Contributor	
0.1	August	K.	Creation
	2020	Schierbaum,	
		M. El	
		Achhab	

