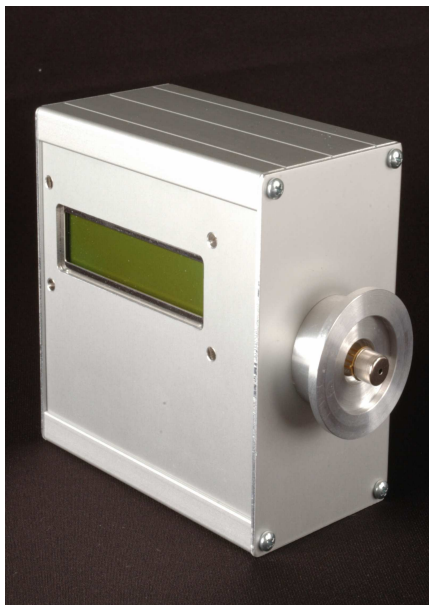
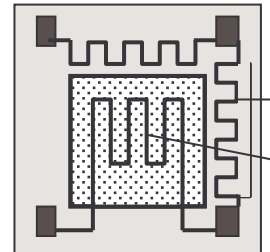




MEMS type Vacuumsensor

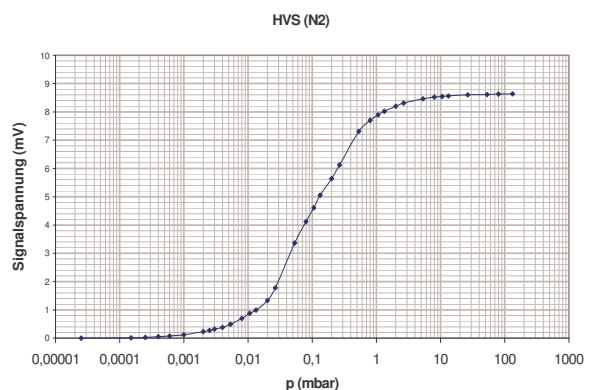
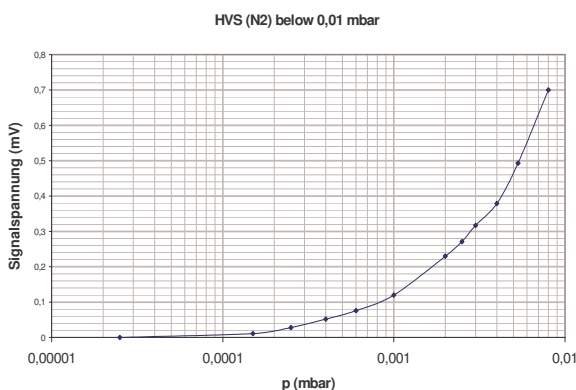
**HVS Series**

The HEIMANN vacuumsensor series HVS contains new innovative sensor chips in silicon micromachining technology. We can offer both the sensor in a TO-5 housing and the complete micro Pirani vacuum sensor with standard RS232 interface and display. The silicon batch technology allows miniaturization and low cost high volume manufacturing. The standard measurement range from  $10^{-4}$  mbar to 100 mbar can be extended to 1000 mbar on special request.



Parameter	HVS	Unit
<b>sensor</b>		
Housing	TO5	
element size	2,2 <sup>2</sup>	mm <sup>2</sup>
resistance sensor chip	1	kOhm
on chip reference resistor	1	kOhm
supply voltage sensor	1	Volt
power consumption	0,001	Watt
time constant	10	ms
<b>Device</b>		
supply voltage	5	Volt

- range: 100 mbar -  $10^{-4}$  mbar / optional 1000 mbar -  $10^{-4}$  mbar
- microprocessor DSPIC 30F3014
- programmable, RS 232 interface
- battery (5V), KF- small flange connection
- simple sensor exchange (TO5-housing)



Modifications reserved Rev.02 / 01.05.2006