

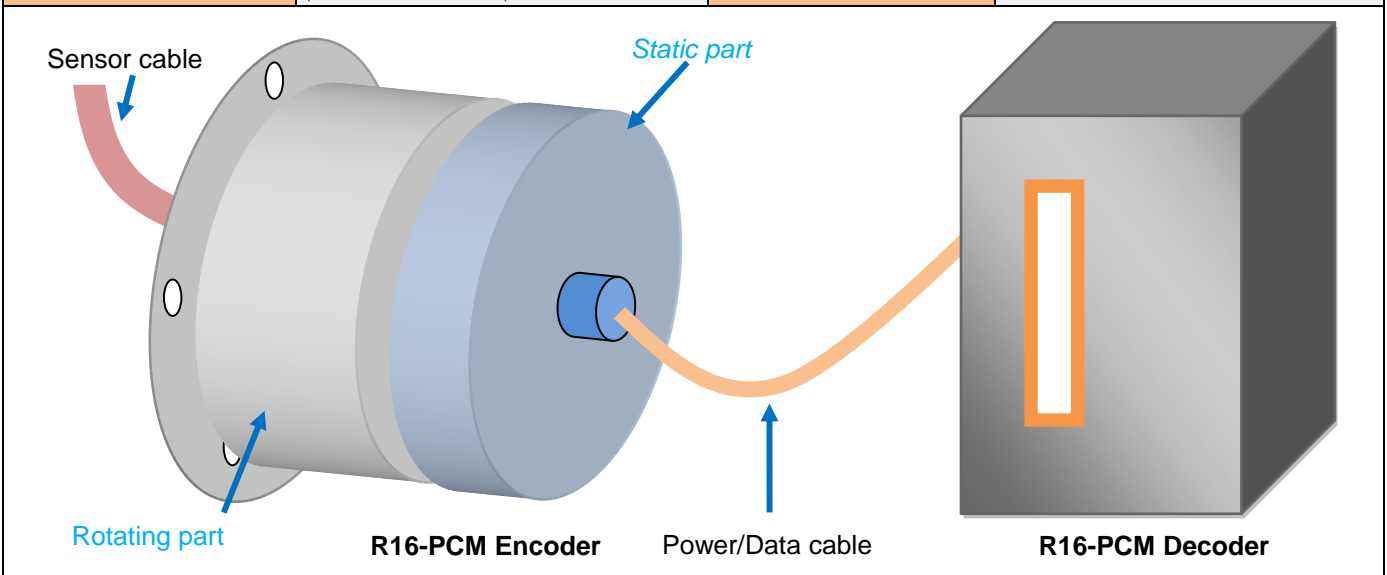
R16-PCM - Technical Data:



Encoder (Rotor Electronic)

Decoder

| | | | |
|-------------------------|---|------------------------------------|--|
| Number of channels: | 16 | Number of channels: | 16 |
| Sensor support | Strain gages full and half bridge $\geq 120\Omega$ | Analog Output | +/-10V via 37-Sub-D connector |
| Excitation | 4V for all channels | Digital Output | PCM serial (optional PCM interface for PC) |
| Gain | 125-250-500-1000-2000 (selectable by software) | | |
| Offset calibration | Automatically (Auto Zero) | | |
| Antialiasing filter | 5-pole Butterworth and 2-stages digital down sampling filter | | |
| Band width | 3000 Hz per channel | Band width | 3000 Hz per channel |
| Sampling rate | 9500 Hz per channel | | |
| Resolution | 16 bit ADC | DAC (digital to analog converting) | 16 bit |
| Powering | Inductive | Powering | 10-30V, 25 Watt |
| Data transmission | PCM digital infrared link | Data receiving | PCM digital twisted pair |
| Operating temperatures | -20 ... 80°C | Operating temperatures | -20 ... 70°C |
| RPM | Max. 3000 | | |
| Dimensions | 100 diameter 110 Lengths (mm) | Dimensions | 205 x 105 x 120 (mm) |
| Weight | 1.2 kg | Weight | 2.5 kg |
| Housing protection type | IP65 | Housing protection type | IP54 |
| Housing material | Aluminum anodized | Housing material | Aluminum anodized |
| Humidity | 20...100% | Humidity | 20 ... 80% (not condensing) |
| Shock | 1000g | Shock | 100g |
| Vibration | +/- 10g | Vibration | 5g |
| Power/Data cable | Length up to 50m, 10m is standard (between Encoder /Decoder) | System accuracy | $\pm 0.25\%$ (without sensor) |



Settings

Web interface address:
IP 192.168.0.110

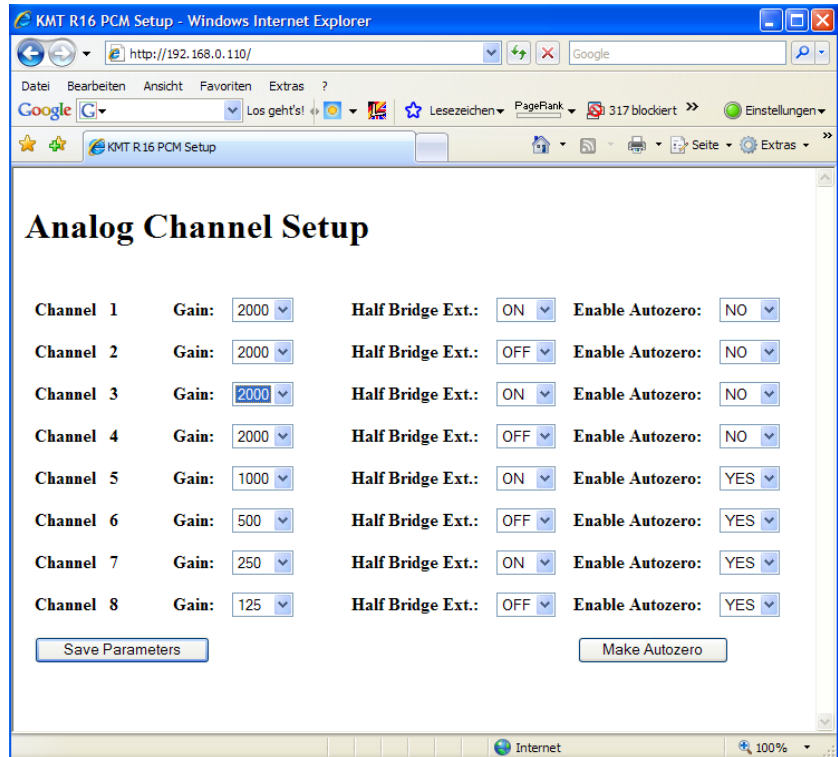
Settings:

Gain 125-250-500-1000-2000
Half- and full bridge
Auto Zero YES/NO



Programming connector

Programmable via web interface

A screenshot of a web browser window displaying the 'KMT R16 PCM Setup' interface. The browser title is 'KMT R16 PCM Setup - Windows Internet Explorer' and the address bar shows 'http://192.168.0.110/'. The page content is titled 'Analog Channel Setup' and features a table with 8 channels. Each channel has three columns: 'Gain', 'Half Bridge Ext.', and 'Enable Autozero'. Below the table are two buttons: 'Save Parameters' and 'Make Autozero'.

| Channel | Gain | Half Bridge Ext. | Enable Autozero |
|-----------|------|------------------|-----------------|
| Channel 1 | 2000 | ON | NO |
| Channel 2 | 2000 | OFF | NO |
| Channel 3 | 2000 | ON | NO |
| Channel 4 | 2000 | OFF | NO |
| Channel 5 | 1000 | ON | YES |
| Channel 6 | 500 | OFF | YES |
| Channel 7 | 250 | ON | YES |
| Channel 8 | 125 | OFF | YES |

