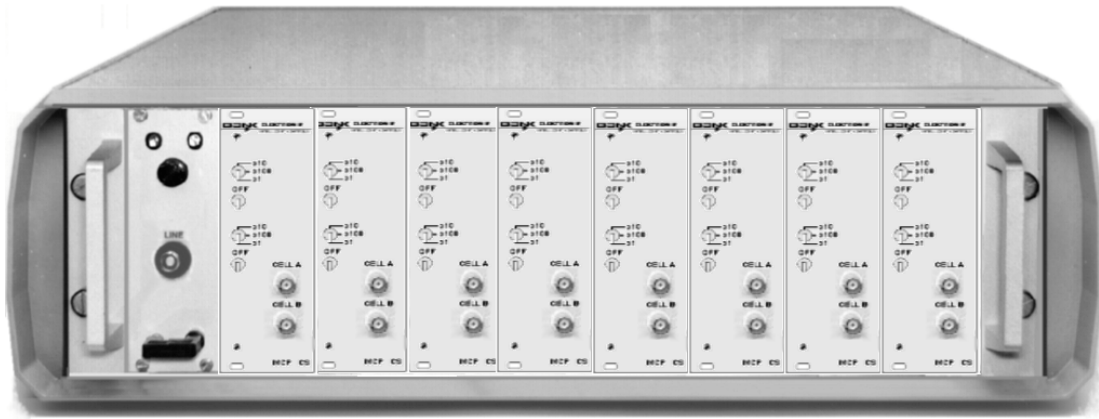


## Wenking CS2 Multi - Channel - Current Sink



CS 2 is a high-precision current sink system for small currents up to max. 1 mA per channel. Each board contains 2 sink channels, and up to 8 boards can be housed in one 19" 3 HU rack. Special filtered linear power stage provides a minimum of noise input.

The current passing the sinks is converted to a current - proportional signal which is fed out to the monitor terminal. The sinks can be polarised independently up to +/- 5 V by an external control voltage, which is fed into the control input terminal.

Order info: CS2-x, where x specifies the maximum current in microamperes, e.g. CS2-1000 = 1000  $\mu$ A per channel as max. current. Suffix -2 means bidecadic ranges (100-1-0.01)

### Specifications

|                                   |  |
|-----------------------------------|--|
| Polarisation range                | +/- 5 V  |
| Input resistance at DC            | Range.10 $\mu$ A: 2 Ohms 100 $\mu$ A: 0,2 Ohms, 1mA < 30 mOhms         |
| Noise ref. to input               | 20 $\mu$ V rms (typ.)  |
| Current - to - voltage conversion | 2 V per full range current   |
| Tolerance                         | 0,1% for range 0.5 $\mu$ A/V and above, 0.25% for ranges below 50 nA/V |
| Bandwidth (unity gain)            | 300 kHz  |
| Phase shift                       | 90° (internal)   |
| Bandwidth recorder output         | 30 kHz (Range 5 mA)  |
| Inputs:                           | 16 independent channels polarisation voltage - in, +/- 5 V             |
| Outputs:                          | 16 channels current out, 2 V per range                                 |

### Current ranges

|             |  |
|-------------|--|
| CS 2 - 1000 | 500 $\mu$ A/V, 50 $\mu$ A/V, 5 $\mu$ A/V |
| CS 2 - 100  | 50 $\mu$ A/V, 5 $\mu$ A/V, 500 nA/V      |
| CS2 - 10    | 5 $\mu$ A/V, 500 nA/V, 50 nA/V           |
| CS2-1000-2  | 500 $\mu$ A/V, 5 $\mu$ A/V, 50 nA/V      |
| CS2-10-2    | 5 $\mu$ A/V, 50 nA/V, 0.5 nA/V           |