



EVA HIGHEND

Control and evaluation unit for C-LEVER® and UNIBAND®

Specially developed evaluation unit for reliable, dynamic measurements: EVA HighEnd is an impressive high-end device which combines more than 40 years of REMBE® expertise in measurement technology with clear, intuitive controls.

Start-up and servicing of the electronics can be performed world-wide via remote maintenance.

Mechanism

EVA HighEnd saves and supplies data such as the current conveyor output or total quantity conveyed with outstanding accuracy. It features adjustable inputs and outputs, counter contacts and industry standard RS232, Ethernet and USB ports as well as Profibus DP (optional). Ideally, the measurements should be compared with reference weights. This requires no additional calculations.

Your advantages

- **Intuitive touch display operation.**
- **Easy to integrate into existing PLC systems:** All standard communication ports are provided.
- **Efficient, freely programmable controller:** Start-up by REMBE® service technicians via remote maintenance.
- **Low maintenance costs:** A data logger on a USB memory stick, WiFi data transmission or remote maintenance by GPRS eliminate the need for on-site maintenance by a service technician.

Technical data EVA HighEnd

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| Wiring | Full Wheatstone bridges with passive connections (6-wire system) |
| Sense system | Passive |
| Minimum bridge resistance | 43.75 Ohm at 5 V exc. |
| Sensitivity | 0.1 to 0.5 µV minimum voltage |
| A/D conversion speed | 1600 measurements per second |
| Internal resolution | 24 bits (16.777.216 parts) |
| Full scale range | -25 to +28 mV |
| Excitation voltage | 5 VDC (+2.5 V and -2.5 V, with respect to the internal grounding) |
| Linearity | < 0.001% (of full scale) |
| Offset drift | < ± 2 ppm/°C |
| Drift measuring span | < ± 2 ppm/°C |
| Digital filters | High performance digital filter 1 + 10 Hz |
| Overall filter | 0 to -50 dB |
| Memorystore | Calibration data backup possible via USB, dynamic data in SRAM with battery backup |
| Real-time clock | Standard with NiMH battery backup |
| Interfaces | |
| 8 digital inputs | Optically isolated, 1 common, 18 to 36 VDC, PNP or NPN input, 1 normal or counter input up to 8 kHz |
| 8 digital outputs (constant level) | 8 digital outputs, isolated PhotoMOS outputs, 2 common max. 36 VDC or AC, 0.5 A nominal, 1 A surge (thermal fuse 0.5 A), PNP or NPN |
| 1 analog output (optional) | 1 analog output 4 to 20 mA, 0 to 20 mA or 4 to 24 mA |
| Power supply | 100 to 240 VAC 50/60 Hz, 15 W max. 24 VDC 15 W max. |
| RS232 | Printer, ASCII, TP Slave, TP Master, NPV Slave, NPV Master, AMI Master, Hostlink, Viewteq, Hostlink PLC |
| Ethernet | TCP/IP, UDP layer with TP-protocol |
| USB | Printer, ASCII and TP Slave, Storage |
| Profibus (optional) | Profibus DP GSD file |
| Display | |
| Type | High resolution, TFT LCD 640×480 (8") pixels, 256 colours, high brightness: 500 cd/m ² , high contrast: 350:1 |
| Display functions | Completely menu driven with graphical user interface |
| Display rate | Selectable: 1, 2, 3, 5, 10 or 25 updates/second |
| Touch screen | Glass screen, 2 mm, resistive type |
| Size | 5.7", (145 mm) |
| Material | Front film PET 175 µ |
| Ambient conditions | |
| Operating temperature | -10 to +40 °C |
| Storage temperature | -20 to +70 °C |
| Relative humidity | 40 to 90%, non-condensing |
| Panel mount housing | |
| Housing material | Extruded aluminium, black powder coating |
| Front: machined aluminium | Black anodised |
| Dimensions | |
| Front: (w × h × d) | 260 × 191 × 5 mm |
| Housing: (w × h × d) | 220 × 150 × 48 mm |
| Panel cut out | 224 × 154 mm |
| Weight | Approx. 1.7 kg |
| Mounting clips | 2 |
| Rubber gasket | O-ring, foam rubber |
| Protection class | |
| Installation panel | IP 45 |
| Integrated into panel (front) | IP 65 |
| Field housing for wall/table top mounting | |
| Housing material | Stainless steel |
| Dimensions | |
| Front: (w × h × d) | 240 × 180 × 70 mm |
| Housing: (w × h × d) | 280 × 200 × 70 mm (including screw nuts and holder) |
| Weight | Approx. 2.3 kg |
| Protection class | IP 65 |