

# Våginstrument **PENKO FLEX 2100 I**



Högupplöslig pekskärm TFT 5.7 inch, färg  
Typgodkänt till 10 000 skaldelar  
Snabb vägning, upp till 1600 AD-omvandlingar / sek.  
Digitala filter 1,0 - 10 Hz  
8 ingångar för yttre knappfunktioner  
8 utgångar 18 - 36 V, 0,5 A  
Många kommunikationsmöjligheter  
G-Cal™ teknolgi

Tillval  
Analog ut 0/4 - 20/24 mA  
Rostfri kapsling  
ProfiBus, GSD medföljer

För övriga frågor kontakta oss gärna.

**Örestads  
Vågteknik**

## Specifikationer FLEX 2100 I



### ELECTRICAL

Power Supply 100 – 240 VAC 50/60Hz, 15 W max.

### SPECIFICATIONS

Wiring Full Wheatstone bridge with passive connections (6-wire system).  
Sense system Aktiv sense  
Min. bridge resistance 87,5 Ohm @ 10 V exc.  
Number of load cells 1 - 4 load cells 350 Ohm @ 10 V exc.  
1 - 12 load cells 1100 Ohm @ 10 V exc.  
Sensitivity 0.1 – 0.5  $\mu$ V minimum voltage for verification scale  
A/D Conversion Speed = < 1600 measurements per second  
Internal Resolution 24 Bits (16,777,216 parts)  
A/D Converter type Sigma-Delta, ratio metric, isolated from digital  
Display Resolution 10 000 approved scales  
100,000 divisions max.  
Display Step x1, x2, x5, x10, x50.  
Decimal Comma Selectable between any digits of the display value  
Full Scale Range -25 mV to +25 mV (-0,25 till +2,5 mV/V)  
Excitation voltage 10 VDC (+5 V and -5V with respect to the internal ground)  
Linearity < 0.001 % of full scale  
Offset Drift < +/- 2 ppm/°C  
Span Drift < +/- 2 ppm/°C  
Digital filters High performance Digital Filter 1-10 Hz  
Overall filter 0 to -50 dB  
Calibration Methods Dead load and Span with up to 8 point linearization,  
Millivolt calibration  
G - CAL (Gravity correction)  
Measurement Functions Automatic zero tracking, motion detection, zero, tare, preset tare,  
net mode, peak hold, valley hold, bar graphs multi range, multi interval  
Memory allocation Calibration data Flash, dynamic data in SRAM with battery back-up  
Real-Time Clock Standard with NiMh battery backup.

### STANDARD DI & DO

8 Digital Inputs 8 DI, optical isolated, 1 common, 18-36 VDC, PNP or NPN.  
Input 1 normal or counter input  
8 Digital Outputs 8 DO isolated PhotoMOS outputs, 1 common max 36 V DC/AC 0,5 A  
1 A Surge (thermal fuse 0.5A), PNP or NPN.

### STANDARD COMMUNICATION PORTS

RS 232 Printer, ASCII, TP slave, TP Master, NPV Slave, NPV Master,  
AMI Master, Hostlink Viewteq, Hostlink PLC  
RS 422 / RS 485 Printer, ASCII, TP slave, TP Master, NPV Slave, NPV Master,  
AMI Master, Hostlink Viewteq, Hostlink PLC  
Ethernet TCP/IP, UDP layer with PENKO TP protocol  
USB Printer, ASCII and TP slave  
CanBus Buslink  
CAN1 port  
CAN2 port  
Profibus DP Profibus GSD file ( option )

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## Specifikationer pekskärm FLEX 2100



### TOUCH SCREEN

Display type	High resolution TFT LCD 640 x 480 pixels, 256 colors, High brightness 500 cd/m <sup>2</sup> . High contrast 350:1
Display functions	Completely menu driven with graphical user interface
Display Rate	Selectable 1, 2, 3, 5, 10 or 25 updates/s
Display Filter	0, -6, -12, -18, -24, -30, and -50 dB
Display Filter range	Selectable in any range of the display value
Display suppression	Selectable in any range of the display value
Status enunciators	Zero, Net, No Motion
Display Digits	6 digits with leading zero suppression, selectable height = 18mm or 9 mm.
Display operation	Operate, configure and calibrate via three interfaces 1 - Front panel, (Touch screen) 2 - RS 232 3 - Ethernet
Touch screen	Glass screen, 2 mm of resistive type
Display size	5.7 inch, (145 mm)
Display material	Front foil PET 175 u
<b>ENVIRONMENTAL</b>	
Operating Temp	-10 °C to +40 °C [14 °F to 104 °F]
Storage Temp	-20 °C to +70 °C [-4 °F to 158 °F]
Relative Humidity	40 – 90% non-condensing.
<b>PANEL MOUNT HOUSING</b>	
Material housing	Extruded aluminum, black powder coating
Front machined aluminum	Black anodized.
Dimensions front:	W x H x D 170 x 150 x 5 mm
Dimensions housing:	W x H x D 137,5 x 137,5 x 119 mm without connectors
Dimensions panel cut out	138,5 x 138,5 mm
Weight approx. .	1700 g.
Mounting clips	2 mounting clips
Rubber seal	O-ring of mosrubber
Cabinet	IP 45
If build in a cabinet (Front)	IP 65

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