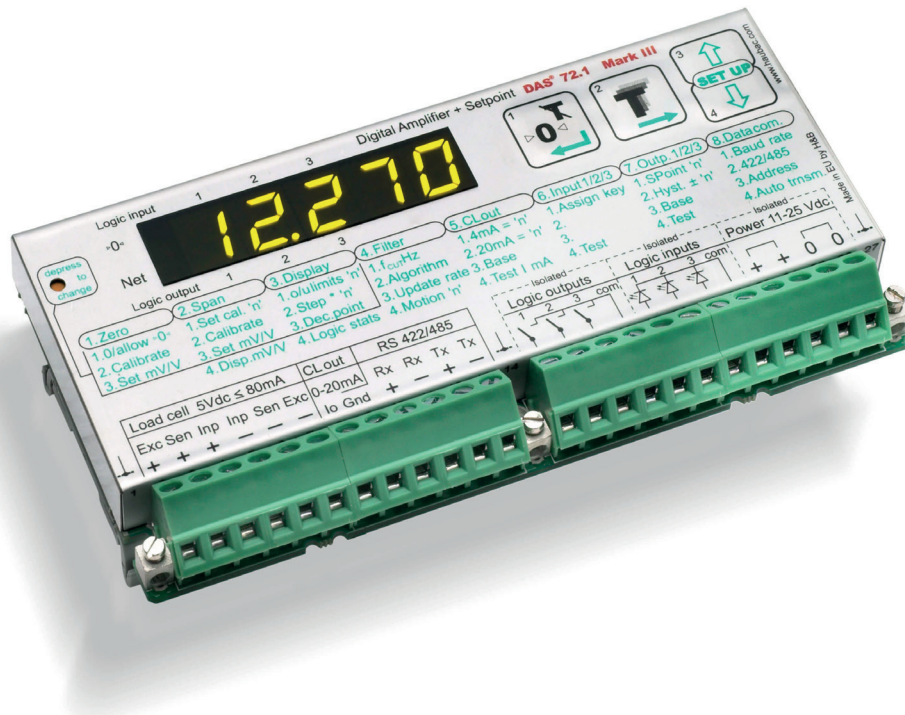


DAS-72.1 process indicator



product description

The DAS 72.1 Mark III process indicator is a fast, accurate, rail mounting instrument for static and dynamic weighing applications.

It has a 5-digit LED weight display and service display, serial interface, analogue output and 3 digital inputs and outputs. The digital inputs and outputs are programmable. Communication via serial interface RS422/RS485 makes it easy to connect to PC, PLC and other devices.

Standard weighing functions are available. Display of: Gross Weight; Net Weight; Peak Value; Peak to Peak Value; Average Value; Hold Value; Valley Value. Software calibration and set up. Basic version: Printed circuit board with metal housing for DIN-rail mounting; with screw terminals

applications

Universal process weighing systems and process automation & control applications.

options

Communicator RS485/Profibus (external)

accessories

Setup software running under MS Windows

key features

Internal resolution $\pm 260,000$ counts

Conversion rate max. 2,400/s

Non-volatile tare on/off

Display control by logic input

Digital filter, programmable

Calibration with weight or in mV/V

Linearity better than 0.002%

6 Wire load cell connection

3 Logic inputs (opto-isolated)

3 Logic outputs (opto-isolated)

Network function by RS422/RS485

Analogue output 0/4 ... 20mA

Power supply 11 ... 25VDC



RoHS
compliant

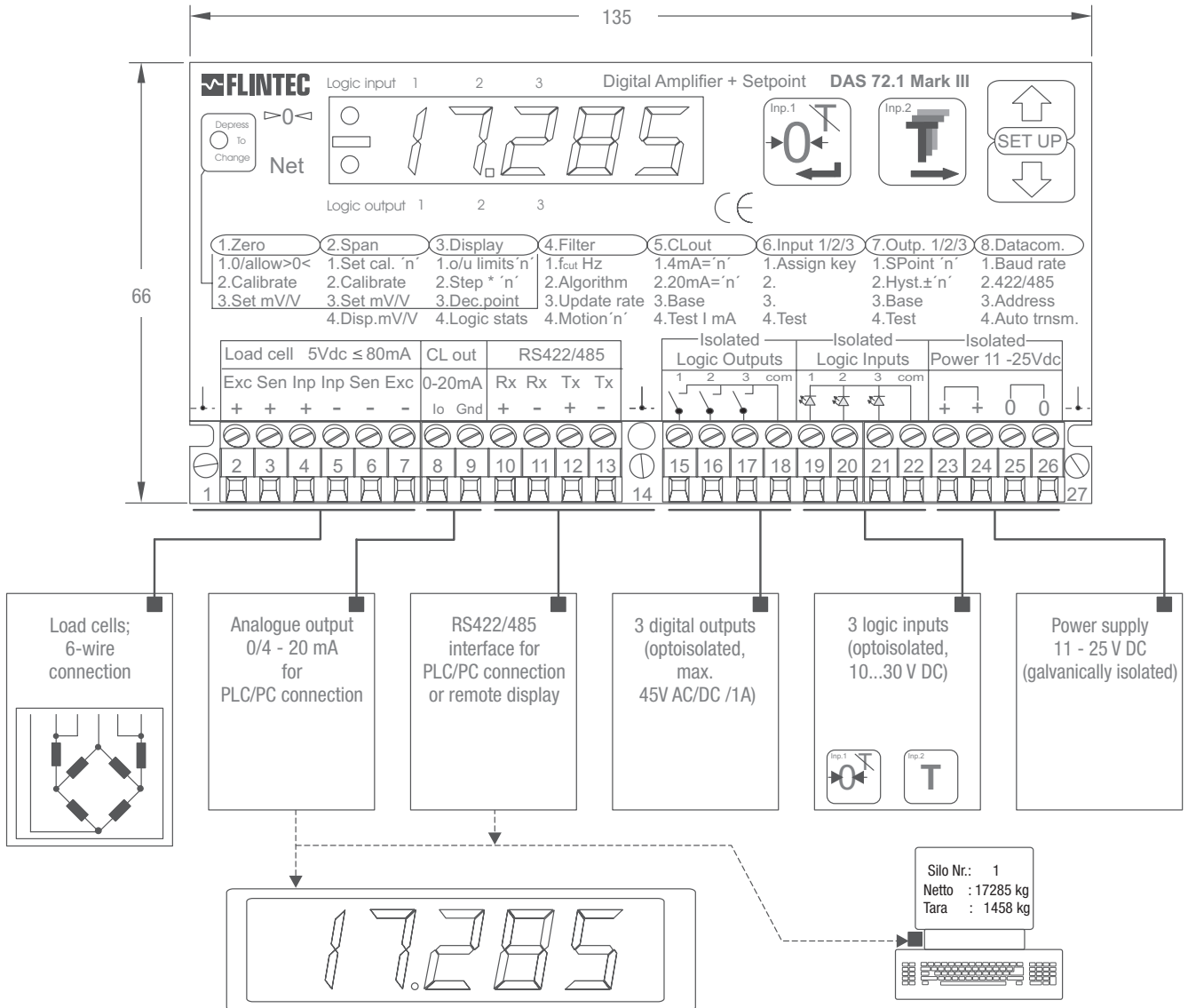


specifications

Linearity	< 0.002%
Excitation	5VDC, load cells 80-2,000 Ω , 4- and 6-wire technique
Analogue input range	$\pm 3.2\text{mV/V}$ (bipolar, for weighing applications, force and torque measurements)
Minimum input per vs _i	0.05 $\mu\text{V/d}$
Resolution	Internal $\pm 260,000$ counts, ± 18 -Bit-A/D convertor; display max. $\pm 99,999$ counts
Conversion rate	Internal 2,400 measurement values per second; external up to 600 measurement values/s
Digital filter	FIR Filter 2.5 ... 19.7Hz or IIR Filter 0.25 ... 18Hz; programmable in 8 steps each
Calibration	Software calibration and set up
Computer interface	RS485 or RS422, full duplex, 9,600 ... 115,200 Baud; bus capability up to 32 devices (RS485)
Weighing functions	Zero, gross, tare, net, filter etc.
Analogue output	0/4...20mA (at 250...500 Ω load), 14-bit resolution; base for output is value: gros / net / peak / peak to peak / average / hold / valley
Display	10.2mm LED, green, 5 digits, 3 status LED for nett/motion/sign, 6 status LED for logic inputs and outputs
Logic inputs	3 opto-isolated inputs, 10 ... 30VDC, max. 3.5mA
Logic outputs	3 opto-isolated outputs, max. 45V, max. 1A
Temperature effects	On zero: typically 3.7 ppm/ $^{\circ}\text{C}$; max. <10 ppm/ $^{\circ}\text{C}$ On span: typically 6.4 ppm/ $^{\circ}\text{C}$; max. < 8 ppm/ $^{\circ}\text{C}$
Temperature range	-10 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$ (operating); -20 $^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (storage)
Enclosure	tinned steel enclosure, protection IP40; for 35 mm DIN-rail mounting; special IP65 housing on request
Dimensions	135 x 66 x 19mm, weight ca. 180g
Power supply	11 ... 25VDC $\pm 10\%$, < 3W, galvanically isolated
EMC	CE 73/23/EEC; 93/98/EEC and 89/336/EEC



system configuration



Dimensions and specifications are subject to change without notice.