



Product Description

Process Indicator Type DAS 72.1 Mark III is a fast, accurate, rail mounting instrument for static and dynamic weighing applications.

DAS 72.1 with 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.

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 ... 20 mA
- Power supply 11 ... 25 V DC

Option

- Communicator RS485/Profibus (external)

Available Accessory

- Setup software running under MS Windows

Specifications

Linearity	< 0.002 %
Excitation	5 V DC, load cells 80-2 000 Ω, 4- and 6-wire technique
Analogue input range	±3.2 mV/V (bipolar, for weighing applications, force and torque measurements)
Minimum input per vs1	0.05 μV / d
Resolution	Internal ±260 000 counts, ±18-Bit-A/D convertor; display max. ±99 999 counts
Conversion rate	Internal 2400 measurement values per second; external up to 600 measurement values per second
Digital filter	FIR Filter 2.5 ... 19.7 Hz or IIR Filter 0.25 ... 18 Hz; programmable in 8 steps each
Calibration	Software calibration and set up
Computer interface	RS485 or RS422, full duplex, 9600 ... 115 200 Baud; bus capability up to 32 devices (RS485)
Weighing functions	Zero, gross, tare, net, filter etc.
Analogue output	0/4...20 mA, 14-bit resolution; base for output is value: gros / net / peak / peak to peak / average / hold / valley
Display	10.2 mm 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 ... 30 V DC, max. 3.5 mA
Logic outputs	3 opto-isolated outputs, max. 45 V, max. 1 A
Temperature effects	On zero: typically 5 ppm/°C ; max. <10 ppm/°C On span: typically 4 ppm/°C ; max. < 8 ppm/°C
Temperature range	-10 °C to +50 °C (operating); -20 °C to +60 °C (storage)
Enclosure	tinned steel enclosure, protection IP40; for 35 mm DIN-rail mounting; special IP65 housing on request
Dimensions	135 x 66 x 19 mm, weight ca. 180 g
Power supply	11 ... 25 V DC ±10 %, < 3 W, galvanically isolated
EMC	CE 73/23/EEC; 93/98/EEC and 89/336/EEC

System Configuration

