U1275 with U1171 and U1277.

U1275 with U1093.

These indicators meet the demands for universal certified weighing products. The standard model U1275 is delivered with complete hard- and software, and no options are needed in most applications. The performance is excellent and the design well proven since long. A great number of useful functions have been included in the standard version.

Certificate: There is a general TAC (Type Approval Certificate), FI98.1.04, for weighing instruments from 0.3kg to 600ton and 6000 intervals according to the directive 90/384/EEC, the European Norm EN45501 (very similar to OIML R76) and the Welmec 2.1 guide for NAWI (Non Automatic Weighing Instruments). Certified load cell must be used according to the Welmec 2.4 guide. The demands in the Welmec 2 guide must be met.

When doing this, a one off weighing instrument may be verified direct without a separate type approval.

A window in the front is used for descriptive markings.

Calibration: The measuring time is 80 milliseconds, but the a mean-value up to 5 seconds is used in order to get a stable display. The conditions for the meanvalue may be set.

Conditions for stability and zero tracking (setting) may also be set.

A software calibration can be performed in up to 6 points in order to linearize the transducer. The last point can be extrapolated by the indicator.

There is multiple range calibration.

A great number of special functions are available as standard and can be selected.

Two complete calibrations may be entered, and there are output signals to handle switching of two separate load receptors.

Fast setpoints: There are 8 setpoints on the weight with direct outputs.

The conditions for these can be set in the way, that the exact switching time is calculated from the last 4 measurements within ±3.3 milliseconds. Thus it is possible to make a faster and/or more accurate filling machine.

External communication: There are many ways to communicate with the outside, e.g. a RS232 port, an optoisolated asynchronous port, two synchronous ports with internal information and 8 setpoint outputs. The asynchronous interface has a number of standard protocols, but also own protocols may be entered and stored in the indicator, both continuously sent and printed at command.

Many interface boards for most applications are available as standard.

SPECIFICATION.

Excitation voltage: 10V±5%, max 250mA.

Input: Coarse gain adjustment: 0.415 - 24.055 mV/V for full internal AD-value in 32 steps.

Offset: 0-1.025mV/V in 8 steps.

Input current <1nA.

Noise typical 0.05µV at 1 second measurement time.

AD-converter: 250,000 units/second.

Linearity better than 25ppm. 1ppm = 10^{-6}.

Stability: <2.5, typical 1ppm/°C. < 20ppm/year.

Zero <0.05, typical 0.02µV/°C. Typical 0.03µV/year.

Low pass filter: 3c/s (52ms) or 14c/s (11ms).

Power: 230/115VAC ±10%. At undervoltage the display blanks.

Dimensions: WxHxD 231x96x160mm.

IP66 Stainless box U1171, 255x122x210mm.

Large front panel U1277, 253x120x2mm.

Temperature range: -10 to +50°C operating.

Display: 14mm high intensity LED.

Asynchronous serial interface: RS232 9p D-sub. Additional output via optoisolator.. 300 - 4800 Baud. Standard or special programmed protocols may be used. All functions may be controlled via the input.

Synchronous serial output. There are two outputs. These contains internal information and are used for options like remote displays, BCD and 0/4 - 20mA outputs.

Other signals: Inputs for tare and print/test.

Outputs from 8 setpoints, stability (motion), out of range and calibration 1 or 2.

Registers: 100 tare registers.

50 sum registers including number of additions for each.

Total 8 setpoints on the weight or the 8 first sum registers or 4 of each.

11 special registers, including date and time.

OPTIONS AND ACCESSORIES.

U1047 Assembly for panelmounting.

U1093 Mounting handle.

U1171 Stainless IP66 box.

U1266 50mm remote display.

U1277 Large front panel.

U1278 Isolated parallel BCD output.

U1279 PC board, 4 fast setpoins relays, motion, hold.

U1290 External isolated RS232 interface. 25p D-sub.

U1292 102mm remote display with RS232.

U1374 Box for remote display U2376.

U1378 14mm remote display board.

U2390 Isolated analog output board. 0/4-20mA, 0-5V.

Still available: U1272 with 2 transducer inputs.

U1274 with 11-30VDC power. Slightly different outputs.