

Weight and temperature data logger

DryBal

Ultra flat scale for drying processes



DryBal 5

DryBal is a 3 cm high scale which can measure variations of 5 grams on a full scale of 30 kg or variations of 1 gram on a full scale of 5 kg. It is used inside drying ovens for bricks, tiles or ceramics.

In combination with a CeriDry and/or a NanoVACQ Ad-TD, it enables the measurement of variations in weight, temperature and humidity of the air, shrinkage, internal temperature of the product and velocity of the air during the drying process.

DryBal 30

- scale (maximum 5 kg) equipped with a weight sensor and 2 temperature sensors (one of which is meant for temperature compensation)
- scale (maximum 30kg) equipped with a weight sensor and 2 temperature sensors (one of which is meant for temperature compensation)



Metrology

- **Operation range**
Temperature..... -10°C to +140°C
Mass..... 0 to 5 kg for the DryBal 5
..... 0 to 30 kg for the DryBal 30
- **Maximum uncertainty**
+/- 2.5 % FS for the Drybal5
+/- 1.5 % FS for the Drybal30
- **Repeatability**
+/- 0.1 kg
- **Resolution and noise of measurement**
Temperature..... 0,05°C
Mass..... 1 g for the DryBal 5
..... 5 g for the DryBal 30
- Each device can be recalibrated and adjusted at temperature points corresponding to user needs.

Technical specifications



- **Material:** 316-L Stainless steel
- **Dimensions:** Length 294 mm x width 213 mm x height 30 mm
- **Sensors:**
Temperature..... Pt1000
Weight..... Strain gauge
- **Memory capacity:** 43 500 acquisitions by channel, i.e. total of 130 500
- **Programmable acquisition rate:** Minimum 1 second to maximum 59 minutes and 59 seconds
- Programmable acquisition duration
- Programmable recording start by date or on temperature threshold
- User replaceable high temperature battery
- Non volatile memory (EEPROM)

Software operating conditions

- Data transfer with a communication interface connected to the serial or USB port.
- Operates under Windows® NT/2000/XP/VISTA/7

NOTA:

A yearly maintenance is advised for O-rings replacement, recalibration and adjustment.