

**DISTROMET LTD**  
P.O.BOX 209  
CH-4020 BASEL  
SWITZERLAND

**SENSOR CALIBRATION**

Date: 11 January 2013

Sensor RD-80 S/N: 2770211a

Sensor calibration using water drops with a fall velocity  
of 96% of the terminal fall velocity

The diameter of the drops is:

0.894 mm (+/- 0.5 %)

The number of drops measured is:

905

The average drop diameter measured by the disdrometer  
using the standard sensor characteristic is:

0.881 mm (+/- 1 %)

The error of the sensor considering the actual fall velocity  
of the drops is:

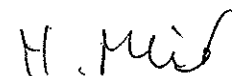
+ 0.6 % (+/- 1 %)

The standard deviation of the distribution of measured  
diameters is :

1.9 %

270 02/17

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H. Meier

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## Calibration Document for Processor RD-80

Serial No: 277 02 11

Customer:

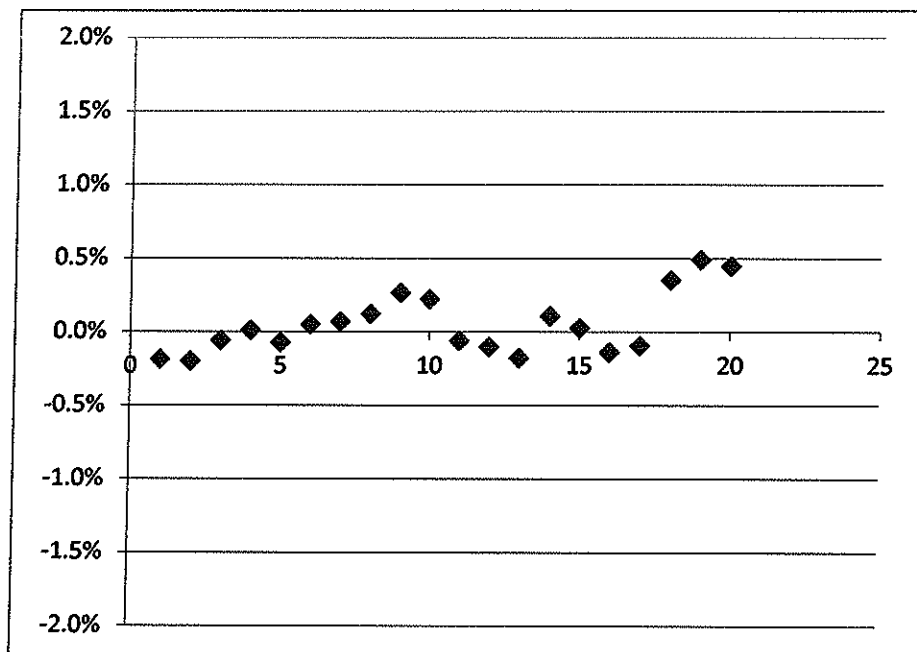
Drop diameter at the RD-80 channel thresholds using the standard transducer characteristic.

Channel	Standard drop diameter lower threshold	measured drop diameter	Error
	mm	mm	%
1	0.313	0.312	-0.19%
2	0.405	0.404	-0.20%
3	0.505	0.505	-0.06%
4	0.596	0.596	0.01%
5	0.715	0.714	-0.07%
6	0.827	0.827	0.05%
7	0.999	1.000	0.07%
8	1.232	1.234	0.12%
9	1.429	1.433	0.26%
10	1.582	1.586	0.22%
11	1.748	1.747	-0.06%
12	2.077	2.075	-0.10%
13	2.441	2.437	-0.18%
14	2.727	2.730	0.11%
15	3.011	3.012	0.03%
16	3.385	3.380	-0.14%
17	3.704	3.700	-0.09%
18	4.127	4.142	0.35%
19	4.573	4.595	0.49%
20	5.145	5.168	0.45%

W. Wirz

Date:  
19.11.2012

Cal. ID:  
02/17



Klasse	ERR %
1	-0.19%
2	-0.20%
3	-0.06%
4	0.01%
5	-0.07%
6	0.05%
7	0.07%
8	0.12%
9	0.26%
10	0.22%
11	-0.06%
12	-0.10%
13	-0.18%
14	0.11%
15	0.03%
16	-0.14%
17	-0.09%
18	0.35%
19	0.49%
20	0.45%