

## LR-Cal OVERVIEW: Portable Temperature Calibrators

 <b>DRUCK &amp; TEMPERATUR</b> Leitenberger GmbH www.druck-temperatur.de									
<b>Model</b>	<b>JOKER+</b>	<b>PYRROS-650</b>	<b>FLUID100</b>	<b>FLUID200</b>	<b>QUARTZ</b>	<b>PULSAR-50 / -65</b>	<b>PULSAR-35Cu</b>	<b>PULSAR-80Cu</b>	<b>SOLAR</b>
<b>Temp.-Range [°C] at 20°C ambient temp.</b>	+20...+350	+20...+650	-12...+125	+20...-200	-30...+150	+20...+550/+600	+20...+600	+20...+550	+200...+1100
<b>Execution</b>	dry block	dry block	fluid bath	fluid bath	dry block	dry block	dry block	dry block	dry block
<b>Stability [°C]</b>	±0.1 (@ 300 °C)	±0.3 (@ 500 °C)	±0.02 (@ -5 °C)	±0.02 (@ 150 °C)	±0.03 (@ 0 °C)	±0.05 (@ 450 °C)	±0.05 (@ 450 °C)	±0.05 (@ 450 °C)	±0.3 (@ 1000 °C)
<b>Uniformity</b>	at 200°C	at 500°C	at 0°C	at 150°C	at 0°C	at 400°C	at 450°C	at 300°C	at 1000°C
<b>radial [°C] (**)</b>	±0.35 (@ 40 mm)	±0.22 (@ 40 mm)	±0.04 (@ 50 mm)	±0.05 (@ 50 mm)	±0.02 (@ 40 mm)	—	±0.15 (@ 50 mm)	±0.1 (@ 100 mm)	±0.4 (@ 40 mm)
<b>axial [°C] (***)</b>	±0.6	±0.8	±0.05	±0.05	±0.1	±0.8	±0.35	±0.3	±0.4
<b>Stability indicator</b>	—	—	audio+visual	audio-visual	audio+visual	audio+visual	audio+visual	audio+visual	audio+visual
<b>Display accuracy [°C]</b>	±0.4	±1	±0.15	±0.15	±0.15	±0.3	±0.3	±0.3	±3
<b>Display resolution [°C]</b>	0.1	1	0.1 / 0.01	0.1 / 0.01	0.1 / 0.01	0.1 / 0.01	0.1 / 0.01	0.1 / 0.01	0.1 / 0.01
<b>External probe reading</b>	—	—	Optional	Optional	Optional	Optional	Optional	—	Optional
<b>Temperature unit(s)</b>	°C	°C	°C / °F / K	°C / °F / K	°C / °F / K	°C / °F / K	°C / °F / K	°C / °F / K	°C / °F / K
<b>Interface</b>	Optional (RS232)	—	RS232	RS232	RS232	RS232	RS232	RS232	RS232
<b>Mean heating time</b>	15 °C/min	18 °C/min	12 °C/min	10 °C/min	20 °C/min	20 °C/min	20 °C/min	9 °C/min	18 °C/min
<b>Mean cooling time</b>	10 °C/min	9 °C/min	5 °C/min	5 °C/min	22 °C/min	25 °C/min	25 °C/min	1,6 °C/min	6 °C/min
<b>Slope</b>	—	●	●	●	●	●	●	●	●
<b>Switch test</b>	●	●	●	●	●	●	●	●	●
<b>Insert hole depth [mm]</b>	130	143	150	150	130	185	185	275	220
<b>Well diameter [mm]</b>	26	26	54	54	35	—	35	60	44
<b>Case dimension [mm]</b>	215 x 120 x 255	130 x 260 x 280	160 x 340 x 330	160 x 340 x 330	160 x 340 x 330	160 x 340 x 330	160 x 340 x 330	170 x 450 x 330	170 x 450 x 330
<b>Weight [kg]</b>	4,1	6,0	8,0	8,0	10,0	8,6	10,0	23,0	12,0
<b>Power supply [VAC]</b>	230 (Option: 115)	115 and 230	230 (Option: 115)	230 (Option: 115)	230 (Option: 115)	230 (Option: 115)	230 (Option: 115)	230	230 (Option: 115)
<b>Power [VA]</b>	300	600	300	500	300	800	800	1700	850

— not available  
● available/standard

\* at 20°C ambient temperature

\*\* referred to distance from bottom of holes

\*\*\* valid for 60 mm from bottom of holes

\*\*\*\* incl. insulator