

TEMPERATURE CALIBRATORS

																																								
Specifications	PYROS 140-1H		PYROS 140-2H		PYROS-375		PYROS-650		FLUID100+T	FLUID 100T	FLUID200T	FLUID200+T		QUARTZT	QUARTZ+T		PULSAR T		SOLAR+T		SOLAR T																			
Temperature range*	-26°C ÷ +140°C				(T.amb. +10°C) ÷ +375°C				(T.amb. +15°C) ÷ +650°C				-35°C÷+120°C		-18°C÷+140°C		T.amb. ÷ +200°C		T.amb. ÷ +250°C		-30°C÷+150°C K7		-50°C÷+120°C		T.amb ÷ + 600°C		200°C ÷ +1100°C		200°C ÷ +1200°C											
Display	LSD								SCREEN TOUCH				SCREEN TOUCH				SCREEN TOUCH				SCREEN TOUCH																			
Display accuracy	±0.25°C full temperature range*				±0.35°C full temperature range*				±0.5°C at 600°C full temperature range*				±0.15°C*				±0.2°C*				±0.15°C full temperature range*				±0.3°C*				±3°C full temperature range*											
Units of measure	°C - °F				°C - °F				°C - °F - K				°C - °F - K				°C/°F- K				°C/°F/K				°C/°F/K															
Display resolution	±0.1°C				±0.1°C				0.1° / 0.01° / 0.001°C				0.1 °/ 0.01 ° / 0.001 ° C				0.1° / 0.01° / 0.001°C				0.1° / 0.01° / 0.001° C																			
Mean heating time (stabilization included)	from T. amb to 130°C approx 25 min				from T.amb to 350°C approx 16 min				from T.amb to 650°C approx 35 min				from T.amb to 140°C approx 40 min.		from T.amb to 200°C approx 30 min.		from T.amb to 200°C to 50°C 75 min		28 min from 20 to 140°C		17 min from T.amb to 120°C		from T. amb to 550°C 40 min.		from T.amb to 1000°C 60 min.															
Mean cooling time (stabilization included)	from T.amb to -20°C approx 23 min				from T.amb to -20°C approx 23 min				from 375°C to 100°C approx 45 min				from 650°C to 100°C approx 80 min				from 120°C to T.amb approx 100 min.		from 140°C to T.amb approx 50 min.		from 200°C to 50°C 75 min		23 min from 20 to -25°C		37 min from Amb. to -45°C		from 550°C to 100°C 60 min.		from 1000°C to 100°C 330 min.											
Stability	±0.1°C full temperature range**				±0.15°C full temperature range**				±0.30°C full temperature range**				±0.02°C at 0°C**				±0.03°C full temperature range**				±0.03°C**				±0.05°C full temperature range **				± 0.05°C											
Axial uniformity	at - 20°C±0.10°C / at 0°C±0.05°C / at 100°C±0.10°C**				at - 20°C±0.12°C / at 0°C±0.04°C / at 100°C±0.12°C***				at 50°C±0.02°C / at 200°C±0.20°C / at 375°C±0.4°C***				at 250°C±0.6°C / at 450°C±0.5°C / at 650°C±0.5°C***				±0.05°C				±0.01°C +140°C				±0.15°C at 400°C***				3.6°C ± 0.3**				1.5 °C ± 0.8**							
Radial uniformity	at 100°C±0.05°C****				at 200°C±0.1°C / at 375°C±0.2°C****				at 450°C±0.15°C / at650°C±0.6°C****				±0.02°C at 0°C***				±0.07°C at 140°C****				±0.06°C at 140°C****				/				± 0.35°C at 400°C				± 1 °C***				± 0.5 °C***			
Hole diameter	1 hole dn 19 mm				2 holes dn 13 mm				26 mm				45 mm		60 mm		35 mm		35 mm		35 mm		44 mm		35 mm															
Hole deth	104 mm				150 mm				170 mm				135 mm		135 mm		185 mm		220 mm		220 mm		210 mm																	
Insert material	Anticorodal				nickel/plated brass				Anticorodal				Anticorodal				nickel/plated brass				ceramics****																			
Switch test, voltage	On/Off - 12VDC				On/Off - 5VDC				On/Off - 4.5 V DC				On/Off - 4.5 Vdc		On/Off - 12 VDC		On/off - 4.5VDC		On/Off - 12 VDC				On/Off - 4.5VDC																	
Adjustable ramp function	0.1÷10°C/min				B type USB				from 0.1°C /1°C				B type USB		from a min 0.1°C/min		from 0,1°C/min		from 0.1°C/min				B type USB																	
PC Interface	RS232				Pt100 at 3/4 wires, Pt1000 - Thermocouples: J,K,N,R,S,E,T,B with 0-10 V or 4-20 mA output				Sensor		Pt100 at 3/4 wires, Pt1000 - Thermocouples: J,K,N,R,S,E,T, B Sensor with 0-10 V or 4-20 mA output.		Pt100 at 3/4 wires, Pt1000 - Thermocouples: J,K,N, R,S,E,T,B Sensor with 0-10 V or 4-20 mA output.		Pt100 at 3/4 wires, Pt1000 - Thermocouples: J,K,N, R,S,E,T,B Sensor with 0-10 V or 4-20 mA output.		Pt100 at 3/4 wires, Pt1000 - Thermocouples: J,K,N, R,S,E,T,B Sensor with 0-10 V or 4-20 mA output.		Pt100 at 3/4 wires, Pt1000 - Thermocouples: J,K,N,R,S,E,T,B - Sensor with 0-10 V or 4-20 mA output		/																			
Automatic calibration	on 5 points				on 5 points				on 5 points				on 5 points		on 5 points		on 5 points		on 5 points		on 5 points																			
Operating voltage	115/240 VAC ±10% 50/60Hz				230 or 115 VAC				230 or 115 VAC		115 or 230 VAC 50/60 HZ		115 or 230 VAC 50/60 Hz		115 or 230 VAC 50/60 Hz		115 or 230 VAC		230 VAC																					
Electric power	80W				600W				350 VA		300 VA		500 VA		350W		400W		800 W		900 W																			
Calibrator size	130X260X280 mm				160x360x350 mm				160x360x350 mm		160x350x360 mm		160x360x350 mm		170x330x450 mm		160x350x385 mm																							
Calibrator weight with standard equipment	5.5 Kg				5.32 Kg				6.5 Kg		11 Kg		8,3 kg		9.3 Kg		10 Kg		12 kg		11.5 Kg																			
The achievement of stabilization is confirmed by a symbol V and a beep																																								
* values measured at room temperature 20°C																																								
* temperature deviation between the display and the reference probe																																								
** maximum temperature difference at a stable temperature over 30 minutes																																								
*** measured for 40 mm starting from the bottom of the hole																																								
**** measured from the bottom up to 40 mm																																								