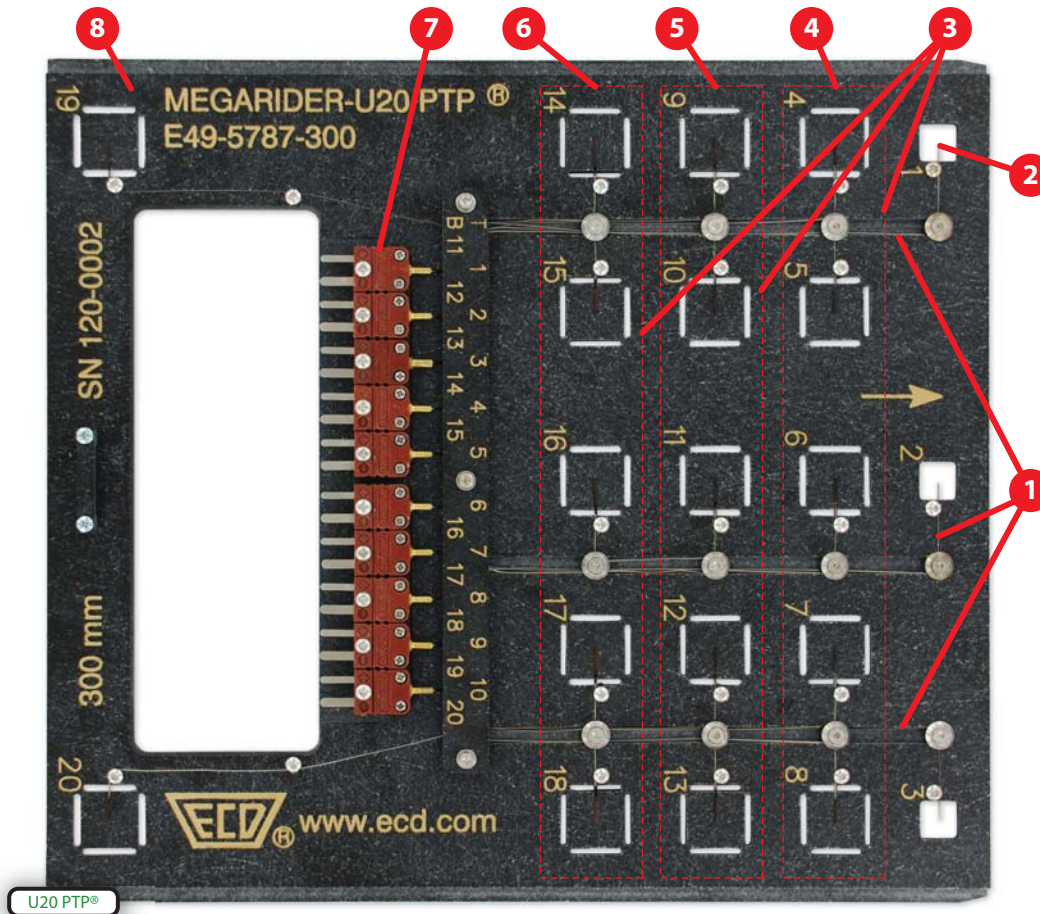




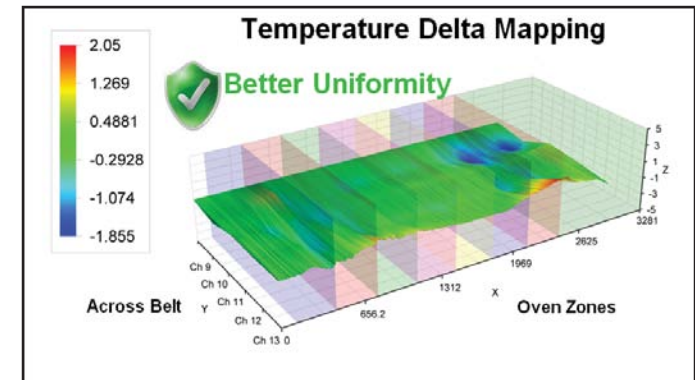
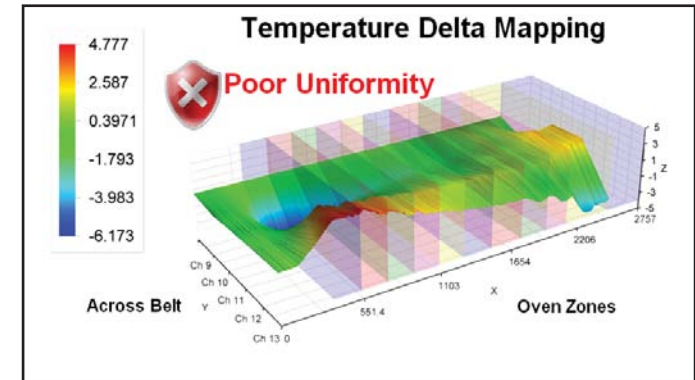
# MEGARIDER™ PTP®

V10, S14 & U20

## QUICK STUDY GUIDE



MEGARIDER™ PTP® test pallets are used where high precision is paramount and oven performance must be known to hold it to a tight tolerance.



## MEGARIDER™ PTP® FEATURES

- 1 Inconel®-sheathed Thermocouples (K-type; SLE):** The sensor type used for all of the MEGARIDER™ PTP® ambient and mass sensors.
- 2 Ambient Zone Temperature Measurements:** Thermocouples for the determination of the ambient temperature at surface level of the PCB.
- 3 Sensors:** Thermocouples, which are attached to different measurement standards. The measurement standards differ only in their material thickness to measure the heating capabilities of an oven.
- 4 Sensors, Thin (1.6mm [0.063"]):** Thermocouples for the determination of cross oven conveyor temperature deltas for thin material.
- 5 Sensors, Medium (3.2mm [0.125"]):** Thermocouples for the determination of cross oven conveyor temperature deltas for medium material.
- 6 Sensors, Thick (6.0mm [0.236"]):** Thermocouples for the determination of cross oven conveyor temperature deltas for thick material.
- 7 Sensor Connector Bridge:** Where wire harness adaptors connect the MEGARIDER™ PTP® to a Thermal Profiler.
- 8 Test Pallet:** These test pallet boards endure thousands of runs through the oven without significant degradation. Far beyond the 6-10 with standard laminate PCBs used as "Golden Boards".




**Note:** These definitions refer to the features on the U20 PTP®. See reverse side for the complete MEGARIDER™ V10, S14 & U20PTP® Pallet Specification Comparison Chart.



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**MEGARIDER™ PTP® Pallet Specification Comparison Chart**

<b>Material</b>	Black Durapol or Equivalent		
<b>Sensor Connection</b>	"K" standard Mini high temp		
			
<b>Name</b>	MEGARIDER™ V10 PTP®	MEGARIDER™ S14 PTP®	MEGARIDER™ U20 PTP®
<b>Part number</b>	E49-4787-300	E49-3787-300	E49-5787-300
<b>Width</b>	300 mm (11.81 in)	300 mm (11.81 mm)	300 mm (11.81 mm)
<b>Length</b>	270 mm (10.6 in)	310 mm (12.2 in)	330 mm (13.0 in)
<b>Thickness</b>	5 mm (0.197 in)	6 mm (0.236 in)	6 mm (0.236 in)
<b>Height (Including Pallet)</b>	13 mm (0.512 in)	23 mm (0.911 in)	15 mm (0.591 in)
<b>Depth (Below Pallet)</b>	0	0	9 mm (0.355 in)
<b>Sensors</b>	10	14	20

<b>Sensor Type and Mass Thickness +/-0.1 mm (+/- 0.004 in)</b>		
1	1.60 mm (0.063 in)	Ambient
2	1.60 mm (0.063 in)	Ambient
3	1.60 mm (0.063 in)	Ambient
4	1.60 mm (0.063 in)	1.6 mm (0.063 in)
5	Ambient	1.6 mm (0.063 in)
6	Ambient	1.6 mm (0.063 in)
7	Ambient	6.0 mm (0.236 in)
8	Ambient	1.6 mm (0.063 in) Bottom
9	5.00 mm (0.197 in)	3.2 mm (0.126 in)
10	1.60 mm (0.063 in) Bottom	3.2 mm (0.126 in)
11	n/a	3.2 mm (0.126 in)
12	n/a	3.2 mm (0.126 in)
13	n/a	3.2 mm (0.126 in)
14	n/a	6.0 mm (0.236 in)
15	n/a	6.0 mm (0.236 in)
16	n/a	6.0 mm (0.236 in)
17	n/a	6.0 mm (0.236 in)
18	n/a	6.0 mm (0.236 in)
19	n/a	1.6 mm (0.063 in)
20	n/a	1.6 mm (0.063 in)