

DATA SHEET

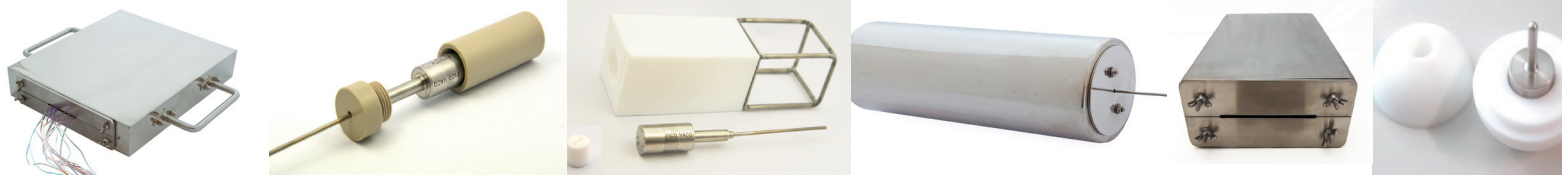
TMI-Orion

Thermal shields

Pharmaceutical - Medical



Data loggers and probes	Models	Thermal shields references	Number of channels	Dimensions (mm)	Temperature and duration							
					200°C	220°C	250°C	300°C	320°C	350°C	400°C	450°C
PicoVACQ 1Td <i>Pt100 or Pt1000</i>		SC073220-450	1	D.73 x L.220		2h10 min	1h55 min	1h30 min		1h15 min		20 min
		SC100270	1	D.100 x L.270	3h15		2h20 min	1h30 min				
		S060150200	2	60x150x200	3h		2h10 min	1h40 min	1h20 min	40 min		
		SC085220-PCM	1	D.85xL.220	3h		2h30 min	1h50 min		1h30 min		
		S046095135	2	46x95x135	1h45 min		1h20 min	1h		45 min		
		S060150200	4	60x150x200	2h45 min		1h45 min	1h20 min	1h05 min	40 min		
VACQ xFlat Thermocouples	VACQ xFlat 1.4	S045160204	4	45x160x204			1h	40 min		30 min		
		S095240275	4	95x240x275			3h			1h30 min		
	VACQ xFlat 1.4	S055160275	4	55x160x275			1h10 min	40 min		30 min		
	VACQ xFlat 2.4		8									
	VACQ xFlat 1.8	S040240275	8	40x240x275			1h20 min	45 min		30 min		
	VACQ xFlat 2.4	S065160275	8	65x160x275			2h	1h10 min		45 min	15 min	
	VACQ xFlat 2.8	S055240275	16	55x240x275			2h10 min	1h30 min		1h		
	VACQ xFlat 2.8	S115275275	16	115x275x275			3h					
	VACQ xFlat 2.8	S155289447	16	155x289x447			5h					
	VACQ xFlat 2.8	S075240275	16	75x240x275			2h30 min	2h		1h30 min		



Packages

Data loggers and probes	Thermal shields references	Number of channels	Dimensions (mm)	Temperature and duration						
				200°C	240°C	250°C	300°C	500°C	600°C	700°C
PicoVACQ Thermocouple	SC038149	1	D.38 x L.149	13 min				5 min	4 min	
	SC040180	1	D.40 x L.180							3 min
NanoVACQ 2Th Thermocouple	SC049150	2	D.49 x L.150				3 min			

Food processing

Data loggers and probes	Models	Thermal shields references	Number of channels	Dimensions (mm)	Temperature and duration									
					180°C	200°C	220°C	240°C	250°C	300°C	320°C	350°C	400°C	450°C
PicoVACQ 1Td Pt100 or Pt1000		SC023075	1	D.23 x L.75		3 min and 30 sec in oil								
		S040040157	1	40x40x157	1 min in oil									
		SC025150	1	D.25 x L.150		1h		30 min	17 min					
		SC030100	1	D.30 x L.100		10 min								
		SC073220-450	1	D.73 x L.220			2h10 min		1h55 min	1h30 min		1h15 min		20 min
		SC100270	1	D.100 x L.270		3h15 min			2h20 min	1h30 min				
		S060150200	2	60x150x200		3h			2h10 min	1h40 min	80 mn	40 min		
		SC085220-PCM	1	D.85 x L.220		3h			2h30 min	1h50 min		1h30 min		
		S046095135	2	46x95x135		1h45 min			1h20 min	1h		45 min		
		S060150200	4	60x150x200		2h45 min			1h45 min	1h20 min	65 mn	40 min		
PicoVACQ Pressure and temperature	PicoVACQ PT	SS070	1	D.70	1 min at 20 bar									
VACQ xFlat Thermocouples	VACQ xFlat 1.4	S045160204	4	45x160x204					1h	40 min		30 min		
		S095240275	4	95x240x275					3h			1h30 min		
	VACQ xFlat 1.4	S055160275	4	55x160x275					1h10 min	40 min		30 min		
	VACQ xFlat 2.4		8											
	VACQ xFlat 1.8	S040240275	8	40x240x275					1h20 min	45 min		30 min		
	VACQ xFlat 2.4	S065160275	8	65x160x275					2h	1h10 min		45 min	15 min	
	VACQ xFlat 2.8	S055240275	16	55x240x275					2h10 min	1h30 min		1h		
	VACQ xFlat 2.8	S115275275	16	115x275x275					3h					
	VACQ xFlat 2.8	S155289447	16	155x289x447					5h					
	VACQ xFlat 2.8	S075240275	16	75x240x275					2h30 min	2h		1h30 min		



Ceramics

Data loggers and probes	Thermal shields references	Number of channels	Dimensions (mm)	Temperature and duration		
				200°C	240°C	250°C
VACQ III Thermocouples	SW175430330	8 or 16	175x430x330	80h		70h
	SW170550180	8 or 16	170x550x180			60h
High-T-Dry PT100 and retractometer	SW105470180	2	105x470x180			6h
VACQ uFlat Thermocouples	S012092192	3	12x92x192		5 min	

Glass

Data loggers and probes	Models	Thermal shields references	Number of channels	Dimensions (mm)	Temperature and duration						
					200°C	250°C	280°C	300°C	400°C	500°C	600°C
PicoVACQ 1Th Thermocouple		SC032240	1	D.32 x L.240	2h			1h10 min	50 min	40 min	35 min
VACQ xFlat Thermocouples	VACQ xFlat 1.4	S023145192	4	23x145x192		16 min		10 min			
	VACQ xFlat 1.8	S023157192	8	23x157x192	30 min	19 min	17 min				



Automotive

Data loggers and probes	Models	Thermal shield references	Number of channels	Dimensions (mm)	Temperature and duration									
					150°C	200°C	250°C	300°C	350°C	400°C	500°C	600°C	700°C	800°C
NanoVACQ 2Th Thermocouples		SC049150	2	D.49 x L.150				3 min						
NanoVACQ 3Th Thermocouples		SC076165	3	D.76 x L.165		80 min	60 min							
		SC076165-PCM	3	D.76 x L.165		1h45 min	1h15 min							
		SC085135-PCM	3	D.85xL.135		2h	1h20 min	1h	50 mn					
VACQ xFlat Thermocouples	VACQ xFlat 1.4	S020095165	4	20x95x165		20 min								
		S070222389	4	70x222x389		5h18 min				1h36 min	1h12 min	54 min	42 min	36 min
	VACQ xFlat 1.8	S128445289	8	128x445x289		5h25 min				1h55 min	1h30 min	1h08 min	56 min	45 min
	VACQ xFlat 1.4	S023092192	4	23x92x192	50 min									

Electronics

Data loggers and probes	Models	Thermal shield references	Number of channels	Dimensions (mm)	Temperature and duration			
					150°C	250°C	300°C	350°C
VACQ xFlat Thermocouples	VACQ xFlat 2.8	S038190160	16	38x190x160		16 min	10 min	
VACQ uFlat Thermocouples	2 x VACQ uFlat	S030080150	6	30x80x150	20 min			

Metallurgy

Data loggers and probes	Models	Thermal shield references	Number of channels	Dimensions (mm)	Temperature and duration	
					535°C	1 100°C
VACQ xFlat Thermocouples	VACQ xFlat 1.4	S063225390	4	63x225x390		2 min
PicoVACQ Thermocouples	PicoVACQ 1Th	SC064356	1	D.64xL.220	2 h	



Iron and steel

Data loggers and probes	Models	Thermal shield references	Number of channels	Dimensions (mm)	Temperature and duration															
					200°C	250°C	350°C	400°C	450°C	500°C	550°C	600°C	650°C	700°C	750°C	800°C	850°C	950°C	1 000°C	1 050°C
VACQ xFlat Thermocouples	VACQ xFlat 1.8	S198553553	8	198x553x553	34 h			11 h		8 h		6 h		4h30 min		4 h				
	VACQ xFlat 1.8	S155289445	8	155x289x445		5h25 min	3h20 min		2h15 min		1h45 min		1h23 min		1h10 min		1h03 min	51 min		44 min
	VACQ xFlat 2.8		16																	
	VACQ xFlat 1.8	S209289445	8	209x289x445		10h	7h15 min		4h50 min		3h55 min		3h10 min		2h45 min		2h30 min	2h05 min		1h50 min
	VACQ xFlat 2.8		16																	
	VACQ xFlat 2.8	S324416578	16	324x416x578						7h		6h20 min		5h40 min		4h50 min	4h30 min	4h	3h20 min	

Headquarters: TMI-Orion S.A.
Parc Bellegarde - Bâtiment A
1, chemin de Borie
34170 Castelnau-le-Lez - France
T.: +33 (0)4 99 52 67 10 – F.: +33 (0)4 99 52 67 19



USA : TMI-USA, Inc.
11491 Sunset Hills Road, Suite 310
Reston, VA 20190 - USA
T : +1 703 668 0114 – F : +1 703 668 0118