Grant temperature probes: summary of specifications Thermistors					Thermocouples			Platinum Resistance				
Typical application	Probe	Probe ref.	standard (U)	high precision (UU)	mini (SU)	type J	type K	type T	Pt100 2-wire (P2)	Pt100 4-wire (P4)	Pt1000 2-wire (P6)	Pt1000 4-wire (P8)
General purpose:	Robust, stainless steel with rounde	ed end, fast	response									
Monitoring temperature of air, vapours, liquids, powders, fridges, freezers, food, etc.		CS	VL, F, A	VL, F, A		N,M,Q, FG	N,M,Q, FG	N,M,Q, FG	VL, F, A	C, D	VL, F, A	C, D
	50mm04.9mm	ст	VL, F, A	VL, F, A		N,M,Q, FG	N,M,Q, FG	N,M,Q, FG	VL, F, A	C, D	VL, F, A	C, D
	50mm03.2mm	СМ	VS, F	VS, F		N, M, Q	N, M, Q	N, M, Q	VS, F		VS, F	
Delrin handle	50mm 03.2mm	СН	VS, F	VS, F		N, M, Q	N, M, Q	N, M, Q	VS, F		VS, F	
General purpose:	Exposed junction thermocouples (conductors	exposed ar	nd welded a	at tip), fast i	response, lo	w cost	•	-			-
Air, vapours, liquids, powders, fridges, freezers, food, etc.	Recess	тн				N, M	N, M	N, M				
Surface temperate	ure: Sensor mounted on either cop	per (EU) or	stainless st	teel base (E	US)					•		-
Monitoring temperature of radiators, pipes, pumps, motors, etc.	length 18 mm max. width 8.5mm	EU	VS, VL, F	VS, VL, F		N, M, Q	N, M, Q	N, M, Q	VS, VL, F			
	front	EUS	VS, VL, F	VS, VL, F		N, M, Q	N, M, Q	N, M, Q	VS, VL, F			
Room temperatur	e: Sensor assembly mounted on a	uminium br	acket. Rem	ovable plas	stic globe to	allow for th	ne effect of	radiant hea	ıt			
Monitoring radiant and air temperature	Ø36 mm (globe)	AG	VS, VL, F	VS, VL, F		N, M, Q	N, M, Q	N, M, Q				
Specialised miniat	ture – hypodermic and catheter pr	obes										
Hypodermic probe with handle – used in zoological, veterinary, botanical, entomology, micro- climate research		DS			VS, VL, F	N, M, Q	N, M, Q	N, M, Q				
	35mm Ø0.75mm	DM			VS, VL, F	N, M, Q	N, M, Q	N, M, Q				
Catheter probe (sensor at end of flexible nylon tubing) – used in incubation, crystallisation etc.	100mm Ø2.0mm	FF	VS, VL, F, A	VS, VL, F, A		N, M, Q	N, M, Q	N, M, Q				
Insertion (solid): S	tainless steel sheath with pointed	end for eas	y insertion i	nto/withdra	wal from so	olid material						
For soil, frozen food, ice, etc.	125mm 04.8mm	HS	VL, F, A	VL, F, A		N,M,Q, FG	N,M,Q, FG	N,M,Q, FG	VL, F, A	C, D	VL, F, A	C, D
	50mm	СМР	VS, F	VS, F		N, M, Q	N, M, Q	N, M, Q	VS, F		VS, F	

03.2mm													
Insertion (soft): Sensor sealed into smooth, flexible, translucent PVC tubing smoothly fused onto cable													
	REC	VL	VL										
50mm Ø3.0mm	REC- small	VS	VS							X			
23mm 016mm max	EAR	VS	VS							\sum			
Accuracy			±0.1°C	±0.2°C	±1.5°C	±1.5°C	±0.5°C	±0.3°C	±0.3°C	±0.3°C	±0.3°C		
Operating range				-50 to +120°C	-25 to +250°C	-25 to +250°C	-25 to +250°C	-50 to +250°C	-50 to +250°C	-50 to +250°C	-50 to +250°C		
	nsor sealed into smooth, flexible, t 100mm 05.0mm 50mm 03.0mm 23mm 016mm max	isor sealed into smooth, flexible, translucent <pre></pre>	isor sealed into smooth, flexible, translucent PVC tubing 100mm 05.0mm 05.0mm 03.0mm 03.0mm EAR VS ±0.2°C	Isor sealed into smooth, flexible, translucent VC tubing smoothly 100mm 05.0mm VS VS VS 23mm 0016mm max EAR VS VS VS VS 23mm 016mm max 100 cm 100	Insor sealed into smooth, flexible, translucent PVC tubing smoothly fused onto 05.0mmREC 05.0mmVLVL50mm 03.0mmREC- smallVSVSS23mm016mm maxEARVSVSS100mm 05.0mmto 2°C±0.2°C±0.1°C±0.2°C	Image: sealed into smooth, flexible, translucent PVC tubing smoothly fueld onto cable 100mm REC VL VL Image: sealed onto cable 05.0mm 05.0mm REC- VS VS Image: sealed onto cable 100mm 05.0mm REC- VS VS Image: sealed onto cable 100mm 05.0mm REC- VS VS Image: sealed onto cable 100mm BEAR VS VS Image: sealed onto cable 100mm EAR VS VS Image: sealed onto cable 100mm 100mm EAR VS Image: sealed onto cable 100mm 100mm EAR VS Image: sealed onto cable Image: sealed onto cable 100mm 100mm VS Image: sealed onto cable Image: sealed onto cable Image: sealed onto cable 100mm 010mm EAR VS VS Image: sealed onto cable Image: sealed onto cable 100mm VS Image: sealed onto cable Image: sealed onto cable Image: sealed onto cable Image: sealed onto cable 100mm VS Image: sealed onto cable Image:	Image: Construct of the state of t	Image: Constraint of the state of	Image: A construction Image: A construc	Image: Constraint of the section of	Image: A constraint of the cons		

VL, F, A, N, M, etc = suitable cable types (see separate key below)

Cables for Grant temperature probes	Cable operating range (°C)	Max. Ø (mm)	Max length (m)	Connector supplied							
Cables for Grant temperature probes				bare-ended	thermocouple plug						
Cable for thermistors and 2-wire Pt100 and 2-wire Pt1000											
VL PVC large coaxial, general purpose, water resistant, flexible	+10 to +105	3.1	500	•	X						
VS PVC small coxial, lightweight, waterproof, flexible	-10 to +105	2.0	5	•	X						
F PTFE coaxial, good mechanical strength & flexibility, resistant to oils, acids, etc	-50 to +250	2.4	500	•	X						
A Polyethylene 2-core, low temperature, heavy duty waterproof	-20 to +80	4.0	300	•	X						
Cable for 4-wire Pt100 and 4-wire Pt1000											
C PVC 4-core insulated, general purpose, water resistant, flexible	-10 to +105	3.5	100	•	X						
D PTFE 4-core insulated, good mechanical strength & flexibility, resistant to oils, acids etc	-50 to +250	3.8	100	•	X						
Cable for thermocouples											
N PTFE flat 2-core, good mechanical strength & flexibility, resistant to oils, acids, etc.	-50 to +250	2.1	50	•	optional						
M PTFE twisted 2-core, good mechanical strength & flexibility, resistant to oils, acids, etc	-50 to +250	2.0	15	•	optional						
Q PTFE round 2-core, good mechanical strength & flexibility, resistant to oils, acids, etc	-50 to +250	2.25	50	•	optional						
FG High temperature	to +400°C max	3.0	-	•	optional						