

Logger type	Battery pack	Operating range	Standard calibration range	Need additional calibration points and number	Standard accuracy (2 standard deviations)	Optional accuracy	Dimensions	Applications ST= Sterilization Steam, SETO= Sterilization ETO P= Pasteurization, L= Lyophilization, F= Freezers, Dr=Dryers, O=Ovens (if thermal protection when temperature above max operating temp)
Temperature/ PVQ								
PicoVACQ 1T/ 1Tc	015P/ 015PV	0°C to 140°C	0°C to 140°C	No	0.1°C	0.06°C	D15mm* 22mm/25mm	ST, P, Dr, O
PicoVACQ 1T/ 1Tc	015M	-40°C to 100°C	0°C to 140°C	Yes (2)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -70°C	0.06°C	D15mm* 40mm	P, Dr, F
PicoVACQ 1T/ 1Tc	015PW/015PWW	-55°C to 140°C	0°C to 140°C	Yes (2)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -70°C	0.06°C	D15mm* 47mm/50mm	ST, P, Dr, F, O
PicoVACQ 1T/ 1Tc	015PW/015PWW	-70°C to 140°C	0°C to 140°C	Yes (3)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -70°C	0.06°C	D15mm* 56mm/59mm	ST, P, Dr, F, O, L
PicoVACQ 1Td	015P/ 015PV	0°C to 140°C	0°C to 140°C	No	0.1°C	0.06°C	D15mm* 32mm/ 35mm	ST, P, Dr, O
PicoVACQ 1Td	015M	-40°C to 100°C	0°C to 140°C	Yes (2)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -70°C	0.06°C	D15mm* 53mm	P, Dr, F
PicoVACQ 1Td	015PW/015PWW	-70°C to 140°C	0°C to 140°C	Yes (3)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -70°C	0.06°C	D15mm*60mm/ 63mm	ST, P, Dr, F, O, L
* PicoVACQ 1Tdi is not watertight, can not be used in autoclaves for sterilization								
PicoVACQ 1Tdi*	015P/ 015PV	0°C to 140°C	0°C to 140°C	No	0.5°C	0.06°C	D15mm* 51,5mm/ 54,5mm	P, Dr, O
PicoVACQ 1Tdi*	015M	-40°C to 100°C	0°C to 140°C	Yes (2)	0.5°C from -70°C to 140°C	0.06°C	D15mm* 68mm	P, Dr, F
PicoVACQ 1Tdi*	015PW/015PWW	-70°C to 140°C	0°C to 140°C	Yes (3)	0.5°C from -70°C to 140°C	0.06°C	D15mm*77mm or 80mm	P, Dr, F, O, L
* PicoVACQ 1Tdi is not watertight, can not be used in autoclaves for sterilization								
PicoVACQ Microwave	015P/ 015PV	0°C to 140°C	0°C to 140°C	No	0.1°C	0.06°C	D15mm* 32mm/ 35mm	ST, P
Picoµwave 1Tc	015P	0°C to 140°C	0°C to 140°C	No	0.1°C	0.06°C	D15mm* 38mm	ST, P
Pressure /PVQ								
PicoVACQ PT	015P/ 015PV	0°C to 140°C and 30mbar to 5 or 15 Bar	0°C to 140°C and 30mbar to 5/15 Bar	No	0.1°C and 30mbar	0.06°C and 12 mbar	D16mm (peek cover) or 17mm (metallic cover)* 37mm/40mm	ST, P, Dr, O
PicoVACQ PT	015M	-30°C to 100°C and 30mbar to 5 or 15 Bar	0°C to 140°C and 30mbar to 5/15 Bar	Yes (1)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -30°C and 30mbar	0.06°C and 12 mbar	D16mm (peek cover) or 17mm (metallic cover)* 53mm	P, Dr, F, O
PicoVACQ PT	015PW/015PWW	-30°C to 140°C and 30mbar to 5 or 15 Bar	0°C to 140°C and 30mbar to 5/15 Bar	Yes (1)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -30°C and 30mbar	0.06°C and 12 mbar	D16mm (peek cover) or 17mm (metallic cover)* 60mm/63mm	ST, P, Dr, F, O
Humidity/ PVQ								
PicoVACQ HT	015M	-30°C to 80°C and from 2 to 98% RH	0°C to 80°C and from 20 to 80% RH	Yes (1)	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C and 3% RH	0.06°C and 1% RH	D15mm* 59mm	Dr
PicoVACQ HT	015PW/015PWW	-30°C to 80°C and from 2 to 98% RH	0°C to 80°C and from 20 to 80% RH	Yes (1)	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C and 3% RH	0.06°C and 1% RH	D15mm* 67mm	Dr
Ex loggers/ PVQ								
PicoVACQ 1Tc Ex	015P	0°C to 140°C	0°C to 140°C	No	0.1°C	0.06°C	D15mm*22mm	ST, SETO, P, Dr, O
PicoVACQ 1Tc Ex	014UEX	-40°C to 100°C	0°C to 140°C	Yes (2)	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C	0.06°C	D15mm*40mm	SETO, P, F, D, O
PicoVACQ PT Ex	015P/ 015PV	0°C to 140°C and 30mbar to 5 or 15 Bar	0°C to 140°C and 30mbar to 5/15 Bar	No	0.1°C and 30mbar	0.06°C and 12 mbar	D16mm (peek cover) or 17mm (metallic cover)* 37mm/40mm	ST, SETO, P, Dr, O
PicoVACQ PT Ex	014UEX	-30°C to 100°C and 30mbar to 5 or 15 Bar	0°C to 140°C and 30mbar to 5/15 Bar	Yes (1)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -40°C and 30mbar	0.06°C and 12 mbar	D16mm (peek cover) or 17mm (metallic cover)* 55mm	SETO, P, F, Dr, O
PicoVACQ HT Ex	015M	-30°C to 80°C and from 2 to 98% RH	0°C to 80°C and from 20 to 80% RH	Yes (1)	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C and 3% RH	0.06°C and 1% RH	D15mm* 59mm	SETO, F, Dr, O
NVQ Flat								
NanoVACQ Flat 1Tc	014W	-30°C to 140°C	0°C to 140°C	Yes (1)	0.1°C	0.06°C	D40mm* 11mm	ST, P, Dr, F, O
NanoVACQ Flat 1Tc Needle	014W	-30°C to 140°C	0°C to 140°C	Yes (1)	0.1°C	0.06°C	D40mm* 11mm	ST, P, Dr, F, O
MiniVACQ								
MiniVACQ	015M	-40°C to 100°C	-40°C to 100°C	No	0.5°C	0.5°C	D15mm* 39,5mm	P, F, Dr, O
Temperature/ NVQ								
NanoVACQ1Tc-2Tdi is not watertight, can not be used in autoclaves for sterilization								
NanoVACQ 1Tc/2Tc/1Td/2Td/3Td/1Tc-2Td/1Tc-2Tdi*	015Z / Calivac	0°C to 140°C	0°C to 140°C	No	0.1°C	0.06°C	D 31mm *39mm	ST, P, Dr, O
NanoVACQ 1Tc/2Tc/1Td/2Td/3Td/1Tc-2Td/1Tc-2Tdi*	014ZF	-55°C to 140°C (limited to 125°C for sterilization use)	0°C to 140°C	Yes (2)	0.1°C	0.06°C	D 31mm *39mm	ST, P, F, Dr, O
NanoVACQ 1Tc/2Tc/1Td/2Td/3Td/1Tc-2Td/1Tc-2Tdi*	014Z	0°C to 125°C	0°C to 140°C	No	0.1°C	0.06°C	D 31mm *31mm	ST, P, Dr, O
NanoVACQ 1Tc/2Tc/1Td/2Td/3Td/1Tc-2Td/1Tc-2Tdi*	014ZFL	-80°C to 85°C	0°C to 140°C	Yes (4)	0.1°C	0.06°C	D31mm * 123mm	P, L, F, Dr, O
NanoVACQ1Tc-2Tdi is not watertight, can not be used in autoclaves for sterilization								
NanoVACQ 1Tc Ex	014ZEX	0°C to 70°C	0°C to 140°C	No	0.1°C	0.06°C	D31mm * 39mm	SETO, O
NanoVACQ FM 1Tc/2Tc/1Td/2Td/3Td/1Tc-2Td/1Tc-2Tdi*	CalIVAC	0°C to 140°C	0°C to 140°C	No	0.1°C	0.06°C	D31mm* 45mm	ST, P, Dr, O
NanoVACQ FM 1Tc/2Tc/1Td/2Td/3Td/1Tc-2Td/1Tc-2Tdi	014ZFL	-80°C to 85°C	0°C to 140°C	Yes (4)	0.1°C	0.06°C	D31mm * 132mm	P, L, F, Dr, O

Logger type	Battery pack	Operating range	Standard calibration range	Need additional calibration points and number	Standard accuracy (2 standard deviations)	Optional accuracy	Dimensions	Applications ST= Sterilization Steam, SETO= Sterilization ETO P= Pasteurization, L= Lyophilization, F= Freezers, Dr=Dryers, O=Ovens (if thermal protection when temperature above max operating temp)
NanoVACQ FM 1Tc/2Tc/1Td/2Td/3Td/ 1Tc-2Td/1Tc-2Td	014ZF	-55°C to 140°C (limited to 125°C for sterilization use)	0°C to 140°C	Yes (2)	0,1°C	0,06°C	D 31mm *45mm	ST, P, Dr, F, O
Pressure/ NVQ								
NanoVACQ PT/ PT-Tc/ PT-Td (1 or 10 Hz)	015Z / CaliVac	0°C to 140°C and 30mbar to 5 Bar	0°C to 140°C and 30mbar to 5 Bar	No	0.1°C and 10mbar	0,06°C and 10mbar	D 31mm *39mm	ST, P, Dr, O
NanoVACQ PT/ PT-Tc/ PT-Td (1 Hz)	015Z / CaliVac	0°C to 140°C and 30mbar to 15 Bar	0°C to 140°C and 30mbar to 5 Bar	No	0.1°C and 12mbar	0,06°C and 12mbar	D 31mm *39mm	ST, P, Dr, O
NanoVACQ PT/ PT-Tc/ PT-Td (10 Hz)	015Z / CaliVac	0°C to 140°C and 30mbar to 15 Bar	0°C to 140°C and 30mbar to 5 Bar	No	0.1°C and 17mbar	0,06°C and 17mbar	D 31mm *39mm	ST, P, Dr, O
NanoVACQ PT/ PT-Tc/ PT-Td	014ZF	-55°C to 140°C and 30mbar to 5 Bar (limited to 125°C for sterilization use)	0°C to 140°C and 30mbar to 5 Bar	Yes (2)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -55°C and 10mbar	0,06°C and 10mbar	D 31mm *39mm	ST, P, Dr, F, O
NanoVACQ PT/ PT-Tc/ PT-Td	014Z	0°C to 125°C and 30mbar to 5 Bar	0°C to 140°C and 30mbar to 5 Bar	No	0.1°C and 10mbar	0,06°C and 10mbar	D 31mm *31mm	ST, P, Dr, O
NanoVACQ PT/ PT-Tc/ PT-Td	014ZFL	-55°C to 85°C and 30mbar to 5 Bar	0°C to 140°C and 30mbar to 5 Bar	Yes (2)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -55°C and 10mbar	0,06°C and 10mbar	D31mm * 123mm	P, L, F, D, O
NanoVACQ FM PT/ PT-Tc/ PT-Td	CalIVAC	0°C to 140°C and 30mbar to 5 Bar	0°C to 140°C and 30mbar to 5 Bar	No	0.1°C and 10mbar	0,06°C and 10mbar	D31mm * 45mm	ST, P, Dr, O
NanoVACQ FM PT/ PT-Tc/ PT-Td	014ZFL	-55°C to 85°C and 30mbar to 5 Bar	0°C to 140°C and 30mbar to 5 Bar	Yes (2)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -55°C and 10mbar	0,06°C and 10mbar	D31mm * 132mm	P, L, F, D, O
NanoVACQ FM PT/ PT-Tc/ PT-Td	014ZF	-55°C to 140°C and 30mbar to 5 Bar (limited to 125°C for sterilization use)	0°C to 140°C and 30mbar to 5 Bar	Yes (2)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -55°C and 10mbar	0,06°C and 10mbar	D 31mm *45mm	ST, P, Dr, F, O
Humidity/ NVQ								
NanoVACQ HT 80°C	015Z/ CaliVAC	0°C to 80°C and from 2 to 98% RH	0°C to 80°C and from 20 to 80% RH	No	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C and 3% RH	0,06°C and 3% RH	D 31mm *39mm	Dr, O
NanoVACQ HT 80°C	014ZF	-30°C to 80°C and from 2 to 98% RH	0°C to 80°C and from 20 to 80% RH	Yes (1)	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C and 3% RH	0,06°C and 3% RH	D 31mm *39mm	Dr, F, O
NanoVACQ HT 80°C	014ZFL	-30°C to 80°C and from 2 to 98% RH	0°C to 80°C and from 20 to 80% RH	Yes (1)	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C and 3% RH	0,06°C and 3% RH	D 31mm *123mm	Dr, F, O
NanoVACQ HT 140°C (not for autoclave purposes)	015Z/ CaliVAC	0°C to 140°C and from 2 to 98% RH	0°C to 140°C and from 20 to 80% RH	No	0.1°C from 0°C to 140°C 0.2°C from 0°C to -30°C and 3% RH	0,06°C and 3% RH	D 31mm *39mm	Dr, O
NanoVACQ HT 140°C (not for autoclave purposes)	014ZF	-30°C to 140°C and from 2 to 98% RH	0°C to 140°C and from 20 to 80% RH	Yes (1)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -30°C and 3% RH	0,06°C and 3% RH	D 31mm *39mm	Dr, F, O
NanoVACQ HT 140°C (not for autoclave purposes)	014ZFL	-30°C to 140°C and from 2 to 98% RH	0°C to 140°C and from 20 to 80% RH	Yes (1)	0.1°C from 0°C to 140°C 0.2°C from 0°C to -30°C and 3% RH	0,06°C and 3% RH	D 31mm *123mm	Dr, F, O
NanoVACQ HT 80°C FM	015Z/ CaliVAC	0°C to 80°C and from 2 to 98% RH	0°C to 80°C and from 20 to 80% RH	No	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C and 3% RH	0,06°C and 3% RH	D 31mm *45mm	Dr, O
NanoVACQ HT 80°C FM	014ZF	-30°C to 80°C and from 2 to 98% RH	0°C to 80°C and from 20 to 80% RH	Yes (1)	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C and 3% RH	0,06°C and 3% RH	D 31mm *45mm	Dr, F, O
NanoVACQ HT 80°C FM	014ZFL	-30°C to 80°C and from 2 to 98% RH	0°C to 80°C and from 20 to 80% RH	Yes (1)	0.1°C from 0°C to 80°C 0.2°C from 0°C to -30°C and 3% RH	0,06°C and 3% RH	D 31mm *132mm	Dr, F, O
VACQ Flat II								
VACQ Flat II 4, 8, 12, 16 thermocouples, FM or not	015S	-55°C to 140°C without thermal shield	0°C to 140°C with K thermocouples	No	1°C	1°C	16 channels : L165 * I95 * H20mm 12 channels : L130 * I95 * H20mm 8 channels : L92 * I105 * H20mm 4 channels : L75 * I105 * H20mm	P, F, Dr, O
VACQ II								
VACQ II 4, 8 and 8FM, 12, 16th FM or not	015S	-55°C to 140°C without thermal shield	0°C to 140°C with K thermocouples	No	1°C	1°C	Length: 120 mm without connector/ diameter : 55 mm	Dr, O
DRINKVACQ								
DrinkVACQ	014DV	-10°C to 80°C	0°C to 80°C	Yes (1)	0,1°C	0,1°C	D 55mm * 61mm	P
Air flow/ Temperature								
NVQ AD-T/ AD-Tc/ Ad-Td	CalIVAC	0°C to 140°C 0 to 20m/s	0°C to 140°C 0 to 20m/s	No	0,1°C and 1m/s	0,1°C and 1m/s	D 31mm *39mm	P, Dr, O
NVQ AD-T/ AD-Tc/ Ad-Td	014ZF	-55°C to 140°C 0 to 20m/s	0°C to 140°C 0 to 20m/s	Yes (2)	0,1°C and 1m/s	0,1°C and 1m/s	D 31mm *39mm	P, F, Dr, O
Ceridry								
Ceridry	015Z	0°C to 140°C, 98% RH and 20mm	0°C to 140°C, 80% RH and 20mm	No	0.2°C and 4% RH and 0,2mm	0.2°C and 4% RH and 0,2mm	L169 * W55 * H52mm	Dr, O