

FIXED POINT CELLS

International Temperature Standard of 1990 and a series of metal and non-metal substances are defined as fixed points. The temperature values of these fixed points are given by the solid-liquid equilibrium temperature of high purity metal substances under constant pressure.

Fixed-point cell mainly consists of quartz glass shell, graphite crucible and high-purity metal. The stability of its quantity is affected by many factors, including purity of metal sample and fittings of fixed-point cell, fabrication and reproducing method of fixed-point, preservation of fixed-point and transmission of quantity. Our company has accumulated many years of rich experience in the production of fixed points, through strict production process and comparative testing, to ensure the reliability and stability of fixed point value transmission.



How to order?
Model DF03 OR DFTP-1
NEED "with calibration certificate"
or "without calibration certificate".

<http://www.yndfmeter.com/>



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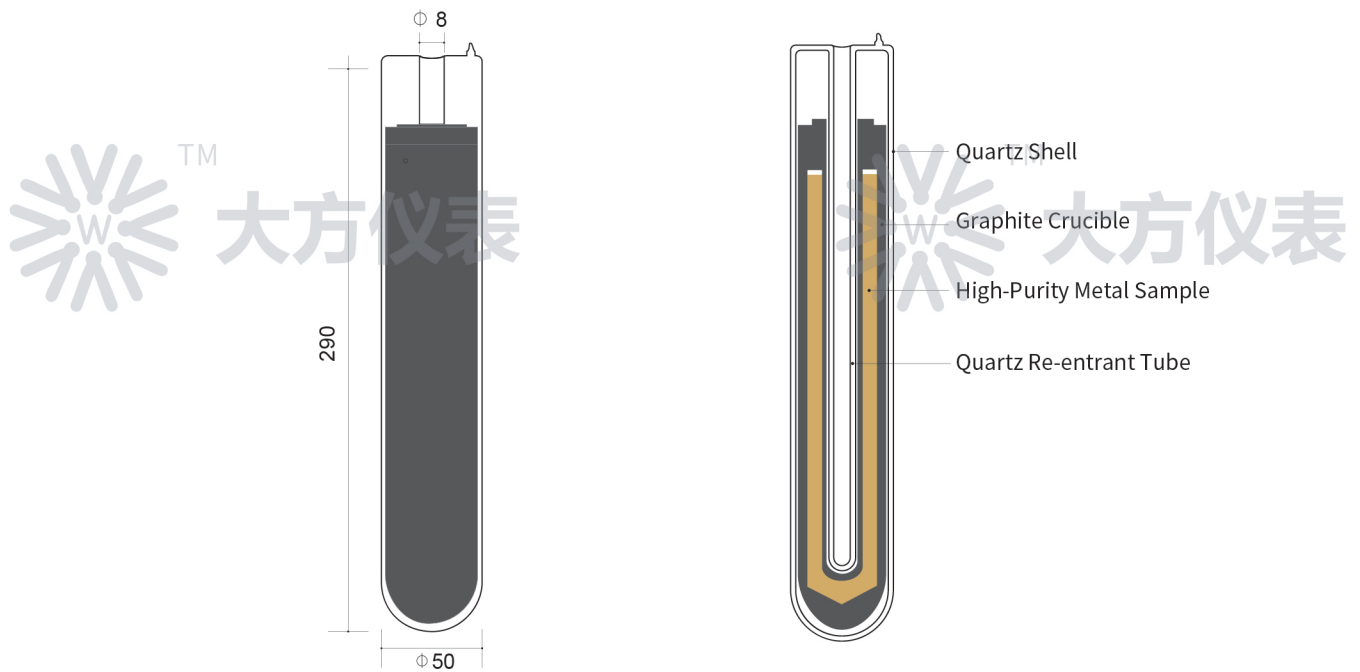
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Fixed Point Cells Structure Diagram(mm)

Main Technical Parameters

Model	DF03	DF04	DF05	DF06	DF07	DF08
	M.P.Ga	M.P.In	M.P.Sn	M.P.Zn	M.P.Al	M.P.Ag
Size(mm)	49x314	49x314	49x314	49x314	49x314	49x314
Packaging Materials	Glass	Quartz glass	Quartz glass	Quartz glass	Quartz glass	Quartz glass
Purity Of Metals	7N	6N	6N	6N	6N	6N
Insertion Depth(mm)	150	180	180	180	180	180
Plateau Duration	>10h	>15h	>15h	>15h	>15h	>15h
Extended Uncertainty k=2(mK)	0.8	1	1.5	1.5	5	10

Accurate measurement on water triple point is important for standard platinum resistance thermometer. The uncertainty is less than 0.1mK.

Main Technical Parameters

Model	DFTP-1/DFTP-1A	DFTP-2/DFTP-2A	DFTP-3/DFTP-3A
Dimensions (mm)	450×60	160×30	420×60
Bore Diameter (mm)	12	8	12
Intrusion Depth (mm)	265	120	265
Material	Borosilicate glass/ Quartz glass	Borosilicate glass/ Quartz glass	Borosilicate glass/ Quartz glass
Reproducibility	0.1mK	0.2mK	0.1mK
Extended Uncertainty(k=2)	0.0001°C	0.0001°C	0.0001°C

Comment: Can be customised on request.

DFTP-1/DFTP-2/TFTP-3 materials is Borosilicate glass.

DFTP-1A/DFTP-2A/TFTP-3A materials is Quartz glass.