






# Device Type Reference List

ID	Device Type	Name	Comment	Date
<b>Beam Magnets and Deflectors (BMD)</b>				
<b>Dipoles</b>				
16	Chopper	Chop		
163	Horizontal Corrector	CorH		03/12/2013
167	Horizontal Steerer	StrH		03/12/2013
31	Horizontal Dipole	DH		
156	Horizontal Raster Magnet	RstH		03/12/2013
164	Vertical Corrector	CorV		03/12/2013
168	Vertical Steerer	StrH		03/12/2013
30	Vertical Dipole	DV		
162	Vertical Raster Magnet	RstV		03/12/2013
<b>Misc</b>				
131	Linac Warm Unit	LWU	 follow up	
34	Proton Beam Window	PBW	 As indicator...	31/05/2013
<b>Octupoles</b>				
43	Octupole, folding in horizontal plane	OctH		
32	Octupole, folding in vertical plane	OctV		
<b>Quadrupoles</b>				
13	Horizontal Focusing Quadrupole	QH		
14	Vertical Focusing Quadrupole	QV		
<b>Solenoids</b>				
2	Solenoid	Sol		
<b>Steerers</b>				
50	Steerer	Str		
<b>Cryogenics (Cryo)</b>				
<b>Cryogenic Boxes</b>				
176	End Box	EBox	2014-01-23	23/01/2014
177	Splitting Box	SBox	2014-01-23	23/01/2014
130	Valve Box	VBox	2014-01-23	15/02/2013
<b>Cryogenic Lines</b>				
174	Distribution Line	CDL	2014-01-23	23/01/2014
173	Transfer Line	CTL	2014-01-23	23/01/2014
<b>Indicators</b>				
94	Flow Indicator	FIn	follow up?	14/03/2013
91	Level Indicator	LIn	follow up	14/03/2013
87	Pressure Indicator	PIn	follow up	14/03/2013

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ID	Device Type	Name	Comment	Date
80	Temperature Indicator	TIn	follow up?	14/03/2013
<b>Misc</b>				
121	Absorber	Abs	follow up	11/04/2013
122	Adsorber	Ads	follow up	11/04/2013
123	Compressor	Cmp	follow up	11/04/2013
124	Fan	Fan	follow up	11/04/2013
125	Filter	Flt	follow up	11/04/2013
129	High Efficiency Particulate Arresting Filter	HEPA	Specific. Follow up	11/04/2013
127	Heat Exchanger	HX	follow up	11/04/2013
128	Heat Pump	HPmp	follow up	11/04/2013
126	Heater	Htr		11/04/2013
<b>Sensors</b>				
92	Flow Sensor	FSn	follow up	14/03/2013
89	Level Sensor	LSn	follow up	14/03/2013
96	Position Sensor	PzSn	follow up	14/03/2013
84	Pressure Sensor	PSn	Is it a pressure transmitter?? 2014-01	14/03/2013
81	Temperature Sensor	TSn	2014-01-23	14/03/2013
<b>Switches</b>				
79	Flow Switch	FSw	follow up	14/03/2013
77	Limit Switch	LSw	Follow up	14/03/2013
<b>Valves</b>				
66	Cryogenic Control Valve	CCV	2014-01-23	23/01/2014
172	Dumping Check Valve	DChV	2014-01-23	23/01/2014
70	Manual Valve	MV	Follow up	14/03/2013
67	Pressure Safety Valve	PSV	2014-01-23	14/03/2013
171	Shut off Check Valve	SChV	2014-01-23	23/01/2014
69	Vacuum Insulation Safety Valve	VISV	2014-01-23	23/01/2014
170	Warm Control Valve	WCV	2014-01-23	23/01/2014




## Electromagnetic Resonators (EMR)

### Misc

15	Cavity	Cav	
146	Buncher	Gap	 specific follow up
161	Elliptical cavity high beta	CavH	 Instrument list
147	Elliptical cavity medium beta	CavM	 Instrumentlist..
160	Spoke Cavity	CavS	 instrumentlist
23	Cryo Module	Cmd	
158	Elliptical Cryo Module	Cmd4	 from instrument list

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

ID	Device Type	Name	Comment	Date
159	Spoke Cryo Module	Cmd2	 from instrument list	
54	DTL Tank	Tnk		
62	RFQ Module	Mdl	 follow up	31/05/2013
145	Warm Intersection Cryo	WIC	follow up	

## Proton Beam Instrumentation (PBI)




### Collimators

11	Collimator	Coll	
3	Slit	Slit	

### Diagnostics

1	Beam Current Monitor	BCM		
21	Beam Loss Monitor	BLM		
36	Fast Beam Loss Monitor	FBLM	 Specific Device	31/05/2013
9	Beam Position Monitor	BPM		
10	Bunch Shape Monitor	BSM		
38	Emittance Monitor	Emit		
20	Energy Degradar	EDgr		
5	Grid	Grid		
39	Halo Monitor	Halo		
40	Thermocouple	Tc	 is a kind of halo monitor	31/05/2013
35	Imaging System	Img		
6	Monochromator	Mnch		
37	Neutron Loss Monitor	NLM		
24	Non-invasive profile monitor	NPM		
19	Ionization Profile Monitor	IPM	 is a kind of NPM	31/05/2013
12	Luminescence Profile Monitor	LPM	 is a kind of NPM	31/05/2013
7	View Port	VPrt		
8	Wire Scanner	WS		

### Dumps

33	Beam Stop	Stop		
17	Chopper Dump	ChpDm		
4	Faraday Cup	FC	 Is in principle a beam stop	31/05/2013
44	Target Wheel	Tgt	 As indicator...	31/05/2013
45	Tuning dump	TDmp	As indicator...	31/05/2013

### Misc

26	Beam Box	BBox
41	Radiation Blockers	RadBl

## Tracewin Commands (TWC)

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ID	Device Type	Name	Comment	Date
<b>Misc</b>				
134	Cell	Cell		
148	DTL cell	DCell		
149	RFQ cell	RCell		
133	Drift	Drft		
135	Edge	Edge		
136	End command	End		
165	Error Bend CPL Stat	EBCS		
166	Error Quad CPL Stat	EQCS		
153	Field Map	FMap		
137	Frequency	Freq		
138	Lattice	Lat		
139	Lattice End	LatEn		
140	Match Fam Foc	MaFaF		
132	Match Fam Grad	MaFaG		
169	Plot DST	PDST	follow up	
157	RFQ Gap	RGap		
155	RFQ Gap RMS FFS	RGRF		
141	Set Achromat	SetAc		
142	Space Charge Compensation	SpChC		
143	Start Achromat	StrAc		
152	Superpose Map	SMap		
154	Twoterms	TTerm		
<b>Vacuum (Vac)</b>				
<b>Controllers</b>				
108	Fast Valve Controller	FVC	follow up	14/03/2013
111	Gauge Controller	GC	follow up	14/03/2013
109	Ion Pump Controller	IPC		14/03/2013
110	Turbo Pump Controller	TMPC	follow up	14/03/2013
<b>Filters</b>				
112	Vent Filter	VF	follow up	14/03/2013
<b>Misc</b>				
28	Electrostatic Precipitator	EP	???? Verification needed	
<b>Pumps</b>				
51	Ion Pump	IP	Changed from pmp. follow up...	14/03/2013
27	Neg pump	NP	Changed from NEG. follow up...	14/03/2013
100	Scroll Pump	SP	follow up	14/03/2013

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ID	Device Type	Name	Comment	Date
101	Turbomolecular Pump	TMP	follow up TPmp?	14/03/2013
<b>Sensors</b>				
97	Gold Cathode Gauge	GCG	follow up	14/03/2013
99	Penning Gauge	PG	follow up	14/03/2013
98	Thermal Couple Gauge	TC	follow up	14/03/2013
<b>Switches</b>				
76	Limit Switch	LSw	Follow up	14/03/2013
<b>Valves</b>				
29	Fast Valve	FV 	Follow up?	14/03/2013
25	Gate Valve	GV 	Change to PGV????	
72	Manual Vent Valve	MVV	Follow up	14/03/2013
71	Pneumatic Gate Valve	PGV		14/03/2013
73	Pneumatic Vent Valve	PVV	Follow up?	14/03/2013
75	Sector Gate Valve	SGV	Follow up?	14/03/2013
74	Solenoid Vent Valve	SVV	Follow up?	14/03/2013
<b>Water Cooling (WtrC)</b>				
<b>Indicators</b>				
93	Flow Indicator	FIn	follow up	14/03/2013
90	Level Indicator	LIn	follow up	14/03/2013
86	Pressure Indicator	PIn	follow up	14/03/2013
83	Temperature Indicator	TIn	follow up	14/03/2013
<b>Misc</b>				
113	Absorber	Abs	follow up	11/04/2013
114	Adsorber	Ads	follow up	11/04/2013
115	Compressor	Cmp	follow up	11/04/2013
116	Fan	Fan	follow up	11/04/2013
117	Filter	Flt	follow up	11/04/2013
120	High Efficiency Particulate Arresting Filter	HEPA	Is a filter. Follow up	11/04/2013
56	Heat Exchanger	HX		11/04/2013
119	Heat Pump	HPmp	follow up	11/04/2013
118	Heater	Htr	follow up	11/04/2013
55	Pump	Pmp		11/04/2013
59	Water Treatment Units	WTU		04/04/2013
<b>Sensors</b>				
61	Flow Sensor	FSn	follow up	14/03/2013
88	Level Sensor	LSn	follow up	14/03/2013
95	Position Sensor	PzSn	follow up	14/03/2013

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ID	Device Type	Name	Comment	Date
85	Pressure Sensor	PSn	follow up	14/03/2013
60	Temperature Senor	TSn	follow up	14/03/2013
<b>Switches</b>				
78	Flow Switch	FSw	follow up	14/03/2013
107	Limit Switch	LSw	Follow up?	14/03/2013
<b>Valves</b>				
57	Controlled Valve	CV	Follow up?	14/03/2013
68	Insulation Safety Valve	ISV	Follow up?	14/03/2013
58	Manual Valve	MV	Follow up	14/03/2013
65	Pressure Safety Valve	PSV	Follow up?	14/03/2013