

Producer	Measurement	Data Type	Production Volume (Bytes)	Production Speed	Production Rate (kB/s)	Expected Accuracy	Remarks
AB-BDI	Total beam intensity	protons	8	1 sec	0.008	1%	
AB-BDI	Individual bunch intensities	protons	28,512	1 min	0.475	5%	
AB-BDI	Average 2D beam size	mm	16	1 sec	0.016	15%	For transport to IP will require knowledge of beta function
AB-BDI	Individual 2D bunch size	mm	44,928	1 min	0.016	15%	For transport to IP will require knowledge of beta function
AB-BDI	Average bunch length	ps	8	1 sec	0.008	1%	
AB-BDI	Total longitudinal distribution		285,120	1 min	4.752		Will be able to detect ghost bunches at the 0.1% level of nominal
AB-BDI	Average HOR & VER positions	um	32	1 sec	0.032	50um	From the BPMs located at Q1 either side of each IP
AB-BDI	Luminosity		28,512	10 sec	2.851	1% relative	This is a relative measurement between bunches
AB-BDI	Average Beam Loss		16	10 sec	0.002		Average of up to 50 selectable BLMs