

HiLumi WP9 Cryo, Coordination of instrumentation needs**CERNOX**

Recall of possibilities, to be considered when requesting CERNOX thermometers

Origin of the sensors:

Free	300 CHF
Calibrated	800 CHF if done by vendor
Maxi + 100	CHF if done by an associated laboratory

Delivery time:

8 wks for 100, 16 wks for 500
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(under investigation, 60/batch, 1 or 2 batch/month)

Summary for quantities:

	Sensors	e- channels
IT+D1	210	116
Links	462	162
CC-RF	240	240
QXL	448	224
Others	106	96
	1466	838

Various installation possibilities:

cold finger		Not doubled
immersed in fluid	Doubled	Not doubled
in vacuum	Doubled	Not doubled

Other needs:

D2	30	20
QUIG	30	30
Ref	30	30
HeL	16	16

IT+D1 Needs

Ref: [M. Sisti Jan'20](#)

(To be revisited considering installation possibilities)
(inside-Dbl) (Vac-Dbl?) (Vac-not D) (Vac-not D)

CERNOX	CM	N lines	LHe pots	BS	Total
Calibrated	94				94
Free (Cal/not)		40	60	16	116
					210
electronic channel	32	20	48	16	116

QXL Needs

Ref: [M. Sisti Jan'20](#)

(Position to be clarified, as well header of SM for Cal/not)

CERNOX		P1/P5	SQXL	Total	
Calibrated	BCD	264	22	286	B in finger ?
Free (Cal/not)	BCD				CD in Vac ?
Free (Cal/not)	EF	152	10	162	EF in Vac ?
				448	
electronic channel		208	16	224	

sc links Needs

Ref: [V. Gahier Jan'20](#)

(Evaluation for link M to be revisited)

CERNOX	LHe Splices	LHe Vessel	MgB2	DFH	Total
Calibrated			228	24	252
Free (Cal/not)	24	12			36
	= for DFHM	= for DFHM	/2 for DFHM	= for DFHM	288
<i>For M links</i>	24	12	114	24	462
electronic channel	8	8	76	8	100
<i>For M links</i>	8	8	38	8	162

CC Needs

Ref: [K. Brodzinski Jan'20](#)

(total number to be revisited: control, monitor, ...)
(with most in Vac with 0.3K DT, calibration ???)

CERNOX		P1/P5	Total
Calibrated	?!?		
Free (Cal/not)		240	240
			240
electronic channel		240	240