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EQUIPMENT MAINTENANCE

In order to guarantee a successful monitoring program, equipment maintenance must be one of the essential components. A proper maintenance program starts with ensuring that one person is designated and responsible for the maintenance program. The maintenance person would then ensure that all the user and technical manuals associated with the monitoring equipment are kept together in a central location. The programs used should be kept with the manuals. With our Loggernet CRBasic software, this is simply done by printing the program. CRBasic will also let the user add other important details such as station description, sensor types, serial numbers and heights (or depths). Finally, a station log book would include the equipment service record and any changes or problems which arise.

Attached is a listing of some of the most utilized equipment which we sell and support with the regular maintenance requirements and replacement part numbers if applicable.

CAMPBELL SCIENTIFIC (CANADA) CORP.
RECOMMENDED EQUIPMENT MAINTENANCE & PART REPLACEMENT SUMMARY

MODEL NUMBER	RECOMMENDED FREQUENCY OF SERVICE	REPLACEMENT PART NUMBER	PART NUMBER/ MAINTENANCE ACTION DESCRIPTION	QUANTITY OF PARTS REQUIRED
013A/014A	12-24 MONTHS	M1898	MET ONE BEARING	2
		L1184	REED SWITCH	1
023A	24-36 MONTHS	M1898	MET ONE BEARING	2
		M1656	MET ONE POTENTIOMETER	1
024A	24-36 MONTHS	L2905	MET ONE POTENTIOMETER	1
05103	12-24 MONTHS	R05163PG	FLANGE BEARING, FOR NOSE CONE (GREASE FILLED)	2
	24-48 MONTHS	R05124VG	VERTICAL SHAFT BEARING (GREASE FILLED)	2
		R05133B	POTENTIOMETER 10K 0.25% LIN COND PLASTIC	1
	N/A	R05145C	POTENTIOMETER MOUNTING & COIL ASSEMBLY	1
05106	12-24 MONTHS	R05124VG	VERTICAL SHAFT BEARING (GREASE FILLED)	2
		R05163PW	FLANGE BEARING, NOSE CONE/WATERPROOF GREASE	2
	24-48 MONTHS	R05133B	POTENTIOMETER 10K 0.25% LIN COND PLASTIC	1
	N/A	R05145C	POTENTIOMETER MOUNTING & COIL ASSEMBLY	1
05305	12-24 MONTHS	R05324	VERTICAL SHAFT BEARING (OIL FILLED)	2
		R27122	FLANGE BEARING, FOR NOSE CONE (OIL FILLED)	2
	24-48 MONTHS	R05133B	POTENTIOMETER 10K 0.25% LIN COND PLASTIC	1
	N/A	R05145C	POTENTIOMETER MOUNTING & COIL ASSEMBLY	1
85000 / 85004	12 MONTHS	VERIFY CALIBRATION	COMPARE TO STANDARD OR WIND TUNNEL CALIBRATION	N/A
81000	12 MONTHS	VERIFY CALIBRATION	COMPARE TO STANDARD OR WIND TUNNEL CALIBRATION	N/A
HMP35C	PERIODICALLY	DONE AT SITE	CLEAN RADIATION SHIELD	N/A
	12-24 MONTHS	HMP35C-PET	SENSOR PERFORMANCE EVALUATION TEST	N/A
	60 MONTHS	C847	RH REPLACEMENT CHIP	1
	AS REQUIRED	C1362, C853	SMALL AND LARGE ORINGS RESPECTIVELY	1 EACH
		C959	REPLACE FILTER CAP	1
HMP45C, HMP45CF HMPC212	PERIODICALLY	DONE AT SITE	CLEAN RADIATION SHIELD	N/A
	12-24 MONTHS	HMP45C-PET	SENSOR PERFORMANCE EVALUATION TEST	N/A
	60 MONTHS	C1413	RH REPLACEMENT CHIP	1
	AS REQUIRED	C1472, C853	SMALL AND LARGE ORINGS RESPECTIVELY	1 EACH
		C959	REPLACE FILTER CAP	1
CS500	PERIODICALLY	DONE AT SITE	CLEAN RADIATION SHIELD	N/A
	24 MONTHS	L9598	RH REPLACEMENT CHIP	1
32500	12 MONTHS	CALIBRATION	SENSOR RECALIBRATION	N/A

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MODEL NUMBER	RECOMMENDED FREQUENCY OF SERVICE	REPLACEMENT PART NUMBER	PART NUMBER/ MAINTENANCE ACTION DESCRIPTION	QUANTITY OF PARTS REQUIRED
LI190SB, LI200S, LI200X	PERIODICALLY	DONE AT SITE	WIPE SENSOR CLEAN	N/A
	24 MONTHS	CALIBRATION	SENSOR CALIBRATION	N/A
ALL KIPP & ZONEN PRODUCTS	PERIODICALLY	DONE AT SITE	WIPE SENSOR CLEAN	N/A
	24 MONTHS	CALIBRATION	CALIBRATE SENSOR (CONTACT CAMPBELL SCIENTIFIC)	N/A
ALL DATALOGGERS	AS REQUIRED	DSC 50/2	REPLACEMENT DESICCANT	1
	24 MONTHS	CALIBRATION	CALIBRATION	N/A
ALL TIPPING BUCKET RAIN GAUGES	PERIODICALLY	DONE AT SITE	LEVEL & CLEAN BUCKET OF DEBRIS	N/A
	12 MONTHS	CALIBRATION	CALIBRATION	N/A
SR50/SR50A	12 MONTHS	DSC 50/2/L4091	INSPECT ANNUALLY	1
	36 MONTHS	C1251/C2158	REPLACE TRANSDUCER EVERY THREE YEARS	1
UDG01	PERIODICALLY	DSC 50/2	REPLACEMENT DESICCANT	1
	AS REQUIRED	UDG01 RETROFIT	ULTRASONIC RETROFIT KIT	1
SBP270	PERIODICALLY	DSC 50/2	REPLACEMENT DESICCANT	1
	6 MONTHS	DONE AT SITE	COMPARE TO STANDARD	N/A
	AS REQUIRED	SBP270 CAL	SENSOR CALIBRATION	N/A
CS105	6 MONTHS	DONE AT SITE	COMPARE TO STANDARD	N/A
	AS REQUIRED	CALIBRATION	SENSOR CALIBRATION	N/A
61302V, 61205V, 61202L	AS REQUIRED	CALIBRATION	SENSOR CALIBRATION	N/A
HC-S3	1 YEAR	C2091	CLEAN RADIATION SHIELD, CLEAN OR REPLACE FILTER CAP WHEN REQUIRED	N/A
CSIM11	AS REQUIRED	M11REFILL	KCL REFILL SOLUTION FOR CSIM11	1
CSIM11-ORP	AS REQUIRED	M11REFILL	KCL REFILL SOLUTION FOR CSIM11-ORP	1
CS547A-L	AS REQUIRED	H013610, H013620, H0113640, H013650, H013770	CALIBRATION SOLUTION (*dependent on background)	1
CS511	AS REQUIRED	L14054, L14055	DO MEMBRANES and ELECTROLYTE SOLUTION	1 EACH

To return equipment for repair or re-calibration, please call our office to obtain a Return Merchandise Authorization number (RMA). Campbell Scientific (Canada) Corp. Technicians are also available for on-site maintenance. Please call for details: (780) 454-2505.