MESSTD30 Table Definitions

20150101

MES15J

15 Minutes

Data Storage: 2016 Records or 21.0 Days

#	Variable Name	Variable Description	Sensor	Measurement Units	Sample Period (s)	Data Output Period (s)
1	TCS05	229 5cm Temperature Under Sod Surface	CSI 229 Using Logger Wiring Panel Temperature	°C	30	900
2	TCS10	229 10cm Temperature Under Sod Surface	CSI 229 Using Logger Wiring Panel Temperature	°C	30	900
3	TCB10	229 10cm Temperature Under Bare Surface	CSI 229 Using Logger Wiring Panel Temperature	°C	30	900
4	TCS25	229 25cm Temperature Under Sod Surface	CSI 229 Using Logger Wiring Panel Temperature	°C	30	900
5	TCS60	229 60cm Temperature Under Sod Surface	CSI 229 Using Logger Wiring Panel Temperature	°C	30	900
6	TCREF	229 Thermocouple Reference Temperature	Logger Wiring Panel Temperature	°C	30	900

MESSTN05H

5 Minutes

Data Storage: 6124 Records or 21.3 Days

#	Variable Name	Variable Description	Sensor	Measurement Units	Sample Period (s)	Data Output Period (s)
1	RELH	1.5m Relative Humidity	Vaisala HMP45A	%	3	300
2	TAIR	P5 Measured 1.5m Aspirated Air Temperature	GE-Thermometrics Bare Bead Thermistor	°C	3	300
3	TSLO	1.5m Unaspirated Air Temperature	Vaisala HMP45A	°C	3	300
4	TA9M	9m Unaspirated Air Temperature	RM Young 41324 PRT	°C	3	300
5	PRES	Atmospheric Pressure	Vaisala PTB202/220	mbar	12	300
6	PRESMN	Minimum Atmospheric Pressure	Vaisala PTB202/220	mbar	12	300
7	PRESMX	Maximum Atmospheric Pressure	Vaisala PTB202/220	mbar	12	300
8	SRAD	Incoming Short Wave Solar Radiation	Licor LI-200S	W/m^2	3	300
9	RTIP	Primary Rain Gauge Bucket Tips	Primary MetOne 380C	Bucket Tips	Interrupt	300
10	TIP2	Secondary Rain Gauge Bucket Tips	Secondary MetOne 380C	Bucket Tips	Interrupt	300
11	WSPD	10m Mean Horizontal Wind Speed	RM Young Wind Monitor	m/s	3	300
12	WVEC	10m Resultant Mean Wind Speed	RM Young Wind Monitor	m/s	3	300
13	WDIR	10m Resultant Mean Wind Direction	RM Young Wind Monitor	Degrees Azimuth	3	300
14	WDSD	Standard Deviation of 10m Wind Direction	RM Young Wind Monitor	m/s	3	300
15	WSSD	Standard Deviation of 10m Wind Speed	RM Young Wind Monitor	Degrees	3	300
16	WMAX	10m Maximum Wind Speed (3s Sample)	RM Young Wind Monitor	m/s	3	300
17	WMX2	2m Maximum Wind Speed (3s Sample)	RM Young Wind Sentry	m/s	3	300
18	WS2M	2m Wind Speed	RM Young Wind Sentry	m/s	3	300
19	BATV	Station Battery Voltage		V	3	300
20	BVAS	Compact Aspirator Battery Voltage	Aux Power Battery Bank #1	V	60	300
21	FANS	Compact Aspirator Fan Speed	RM Young 43508	Revolutions Per Minute	3	300
22	TAIR_P4	P4 Measured TAIR	GE-Thermometrics Bare Bead Thermistor	°C	3	300
23	FLSV	Flag Status Value			3	300

MES01N

1 Minute

Data Storage: 11397 Records or 27.9Days

#	Variable Name	Variable Description	Sensor	Measurement Units	Sample Period (s)	Data Output Period (s)
1	RH1M	1.5m Relative Humidity	Vaisala HMP45A	%	3	60
2	TA1M	P5 Measured 1.5m Aspirated Air Temperature	GE-Thermometrics Bare Bead Thermistor	°C	3	60
3	SR1M	Incoming Short Wave Solar Radiation	Licor LI-200S	W/m^2	3	60
4	RT1M	Primary Rain Gauge Bucket Tips	Primary MetOne 380C	Bucket Tips	Interrupt	60
5	R21M	Secondary Rain Gauge Bucket Tips	Secondary MetOne 380C	Bucket Tips	Interrupt	60
6	PR1M	Atmospheric Pressure	Vaisala PTB202/220	mbar	12	60
7	PRMN	Minimum Atmospheric Pressure	Vaisala PTB202/220	mbar	12	60
8	PRMX	Maximum Atmospheric Pressure	Vaisala PTB202/220	mbar	12	60
9	WS1M	10m Mean Horizontal Wind Speed	RM Young Wind Monitor	m/s	3	60
10	WD1M	10m Resultant Mean Wind Direction	RM Young Wind Monitor	Degrees Azimuth	3	60
11	T91M	9m Unaspirated Air Temperature	RM Young 41324 PRT	°C	3	60
12	W21M	2m Wind Speed	RM Young Wind Sentry	m/s	3	60
13	WX1M	10m Maximum Wind Speed (3s Sample)	RM Young Wind Monitor	m/s	3	60
14	TS1M	1.5m Unaspirated Air Temperature	Vaisala HMP45A	°C	3	60
15	BV1M	Station Battery Voltage		V	3	60
16	BVMN	Minimum Station Battery Voltage Sample		V	30	60
17	BVMX	Maximum Station Battery Voltage Sample		V	30	60

MES30F

30 Minutes

Data Storage: 11008 Records or 21.0 Days

#	Variable Name	Variable Description	Sensor	Measurement Units	Sample Period (s)	Data Output Period (s)
1	STS05	5cm Temperature Under Sod Surface Before Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
2	FTS05	5cm Temperature Under Sod Surface After Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
3	STS10	10cm Temperature Under Sod Surface Before Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
4	FTS10	10cm Temperature Under Sod Surface After Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
5	STB10	10cm Temperature Under Bare Surface Before Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
6	FTB10	10cm Temperature Under Bare Surface After Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
7	STS25	25cm Temperature Under Sod Surface Before Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
8	FTS25	25cm Temperature Under Sod Surface After Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
9	STS60	60cm Temperature Under Sod Surface Before Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
10	FTS60	60cm Temperature Under Sod Surface After Heating	CSI 229 Using Logger Wiring Panel Temperature	°C	1800	1800
11	TREF	229 Thermocouple Reference Temperature	Logger Wiring Panel Temperature	°C	1800	1800

EXPTIP24HB

24 Hours

Data Storage: 14 Records or 14.0 Days

#	Variable Name	Variable Description	Sensor	Measurement Units	Sample Period (s)	Data Output Period (s)
1	RTIP	Primary Rain Gauge Bucket Tips	Primary MetOne 380C	Bucket Tips	Interrupt	86400
2	DRTIP	Primary Rain Gauge Bucket Tips (Without 2.0s Debounce)	Primary MetOne 380C	Bucket Tips	Interrupt	86400
3	TIP2	Secondary Rain Gauge Bucket Tips	Secondary MetOne 380C	Bucket Tips	Interrupt	86400
4	DTIP2	Secondary Rain Gauge Bucket Tips (Without 0.5s Debounce)	Secondary MetOne 380C	Bucket Tips	Interrupt	86400

EXPWEL60C

60 Minutes

Data Storage: 504 Records or 21.0 Days

#	Variable Name	Variable Description	Sensor	Measurement Units	Sample Period (s)	Data Output Period (s)
1	WLEV1	Water Well Sensor #1 Pressure	In-Situ MiniTroll / LevelTroll 700	PSI	300	3600 (Last Sample)
2	WTMP1	Water Well Sensor #1 Temperature	In-Situ MiniTroll / LevelTroll 700	°C	300	3600 (Last Sample)
3	WDEP1	Water Well Sensor #1 Depth To Water	In-Situ MiniTroll / LevelTroll 700	Feet	300	3600 (Last Sample)
4	WLEV2	Water Well Sensor #2 Pressure	In-Situ MiniTroll / LevelTroll 700	PSI	300	3600 (Last Sample)
5	WTMP2	Water Well Sensor #2 Temperature	In-Situ MiniTroll / LevelTroll 700	°C	300	3600 (Last Sample)
6	WDEP2	Water Well Sensor #2 Depth To Water	In-Situ MiniTroll / LevelTroll 700	Feet	300	3600 (Last Sample)

EXPSNOW05B

5 Minutes

Data Storage: 6013 Records or 20.9 Days

#	Variable Name	Variable Description	Sensor	Measurement Units	Sample Period (s)	Data Output Period (s)
1	RAWD1	Sensor #1 Raw Distance to Snow Board	CSI SR50A Ultrasonic Snow Depth Sensor	m	60	300
2	SIGQ1	Sensor #1 Signal Quality	CSI SR50A Ultrasonic Snow Depth Sensor	Unitless	60	300
3	T15K1	P5 Measured 1.5m Aspirated Air Temperature for SR50A #1	GE-Thermometrics Bare Bead Thermistor	°K	60	300
4	D2SN1	Sensor #1 Temperature Corrected Distance To Snow Board	CSI SR50A Ultrasonic Snow Depth Sensor	m	60	300
5	SNDP1	Sensor #1 Calculated Snow Depth	CSI SR50A Ultrasonic Snow Depth Sensor	m	60	300
6	HGHT1	Sensor #1 Mounting Height Above Snow Board	CSI SR50A Ultrasonic Snow Depth Sensor	m	60	300
7	RAWD2	Sensor #2 Raw Distance to Snow Board	CSI SR50A Ultrasonic Snow Depth Sensor	m	60	300
8	SIGQ2	Sensor #2 Signal Quality	CSI SR50A Ultrasonic Snow Depth Sensor	Unitless	60	300
9	T15K2	P5 Measured 1.5m Aspirated Air Temperature for SR50A #2	GE-Thermometrics Bare Bead Thermistor	°K	60	300
10	D2SN2	Sensor #2 Temperature Corrected Distance To Snow Board	CSI SR50A Ultrasonic Snow Depth Sensor	m	60	300
11	SNDP2	Sensor #2 Calculated Snow Depth	CSI SR50A Ultrasonic Snow Depth Sensor	m	60	300
12	HGHT2	Sensor #2 Mounting Height Above Snow Board	CSI SR50A Ultrasonic Snow Depth Sensor	m	60	300