



Wireless Console / Receiver



Console reads in U.S. . . .

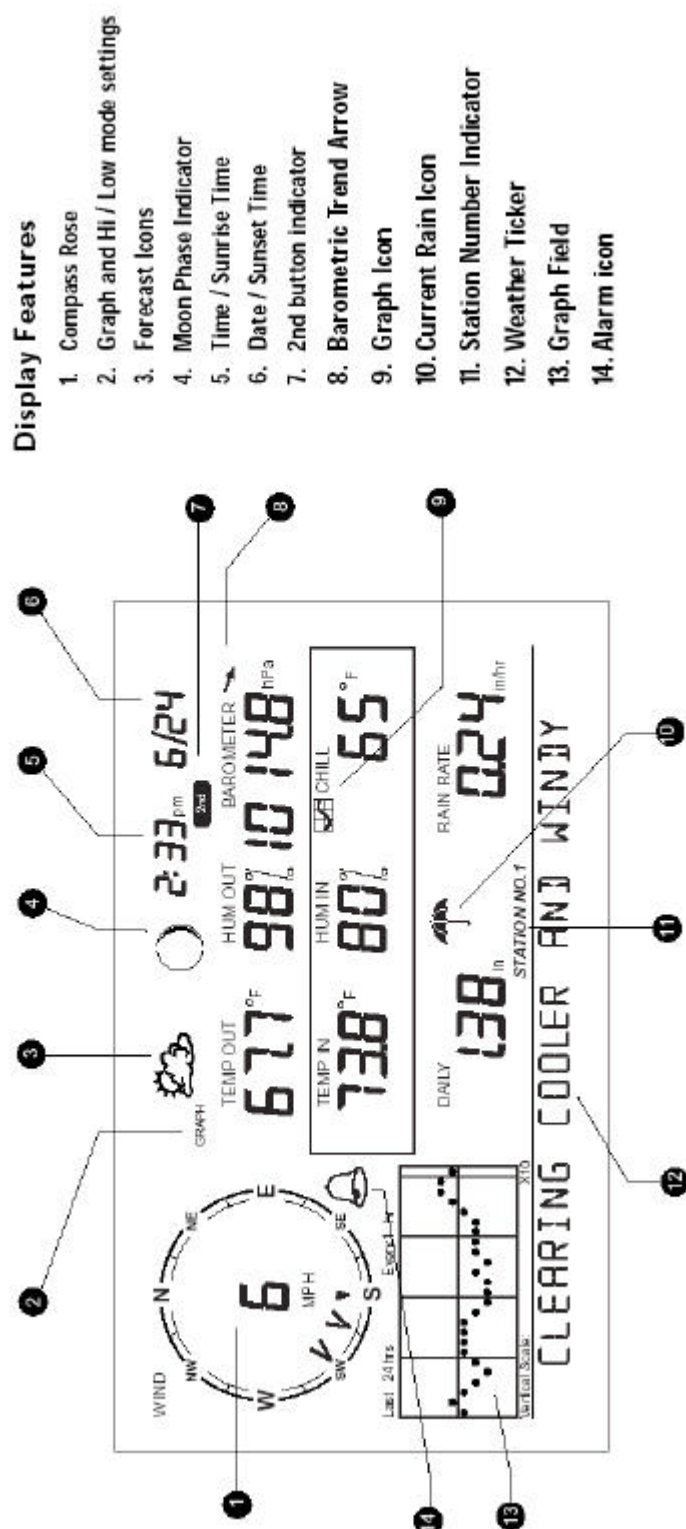
. . . or metric units of measure.



SECHANG INSTRUMENTS

1

)



1.1 &

Vantage Pro 가 ,
가 .
“Activating Weather Variables” 27 .
 ,
 , 가 DONE , DONE
 , 가 .

1.2

Setup : , , ,
.
Current Data : 가
.
High/Low : High/Low .
Alarm : , , .
Graph : 가 .

1.3

Wireless Vantage Pro 8 .
“Optional Sensors” .

2

, 가
.

2.1 (Setup Mode)

Vantage Pro 가
. 5가 {“ ”, “ ”, “ / ”, “ ”, “ ”}

2.1.1 가 가

, 가
가 DONE “ _ “
가 , DONE

2.1.2 (Screen)

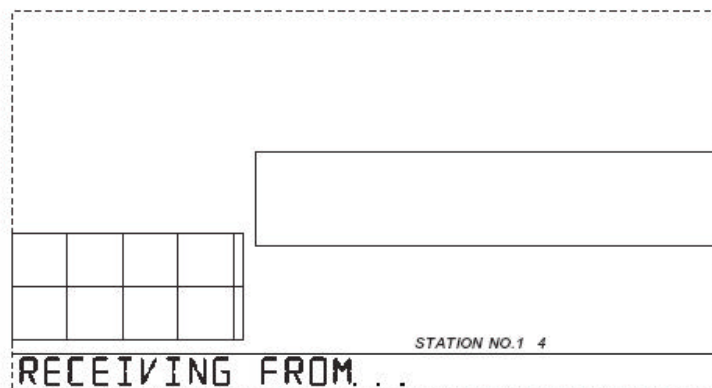
DONE , BAR

Screen1:

Screen1 ()
 . “Receiving from.....” 가 ,
 Station No DONE
 .
 , (Current Weather Mode)
 “X” 가 .

Note: ON

ON ISS



/ 가

Table 1 : Maximum Transmitters per wireless Console/Receiver

Integrated Sensor Suite (ISS)	1
Anemometer Transmitter Kit	1
Leaf Wetness/Temperature Station	1
Soil Moisture/Temperature Station	1
Temperature Station	8
Temperature/Humidity Station	8

Screen2:

Screen 2 가

ON

(ISS)가

ISS

DONE

ON

(ISS)

1

ISS

Station No.

가

Station No.

1) ID

ID

Note: Station ID

ISS

“1”

ID

2)

가

ID

, “+” “-”

ID

3)

,

ID

“GRAPH”

Note: 가 Temperature/Humidity Station ISS

Tem/Hum , HIGH/LOW

가 ISS

Temperature/Humidity Station , ISS

HIGH/LOW

Screen3: _____

/ ,
 <OFF> 가, <ON>
 , “+”, “-”

DONE

				2			
RETRANSMIT ON							

Screen4: _____

,
 가 : “right”, “left” , : “+”, “-”
 , DONE

10:37 am 11/25							
				2000			
ENTER TIME...							

Screen5: _____

: “right”, “left” , : “+”, “-”
 DONE
 Note:

가 , 가
 가,

					376				
ENTER LATITUDE...					NORTH				

Screen6: _____

: “right”, “left”, : “+”, “-”
 “ DONE

					122.1				
ENTER LONGITUDE...					WEST				

Screen7:

US 가
 . Time Zone “+”, “-“ DONE
 . 가 가 ,
 UTC(Universal Time Coordinated) 2ND .

<GMT-0800> PACIFIC TIME

Note: UTC

Screen8: (Summer Time)

Summer Time .
 Manual , DONE .

DAYLIGHT SAVINGS MANUAL

Screen9: (Summer Time)

Summer Time .
 OFF DONE .

DAYLIGHT SAVINGS OFF

Screen10: _____

				0237			
ENTER ELEVATION...				FEET			

가

가

가

Note: O

“_”

Screen11: wind cup _____

Vantage Pro Station

Large wind cup

Small

wind cup

, small

DONE

WIND CUP SIZE				LARGE			

Note: Large wind cups

. Small wind cups

가

120mph(194kph)

, Small

wind cups

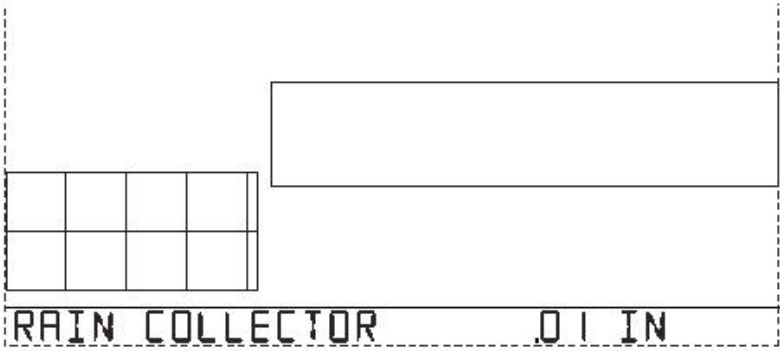
Screen12: rain collector

Vantage Pro rain collector

2mm DONE

Current Weather Mode (

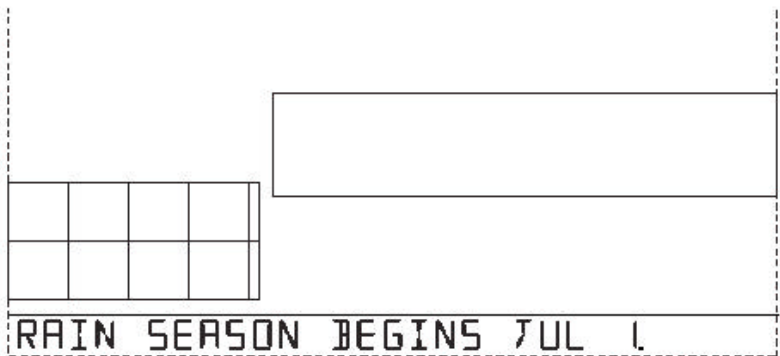
.) 2ND UNITS



Screen13:

가

1



2.1.3 가

(3) DONE 가

가

, "DONE" "-"

2.2

Vantage Pro가

가 가

. 10

LCD

2.2.1

“right” “left” , “4” “_”

APPENDIX

2.2.2

WIND

(mph),

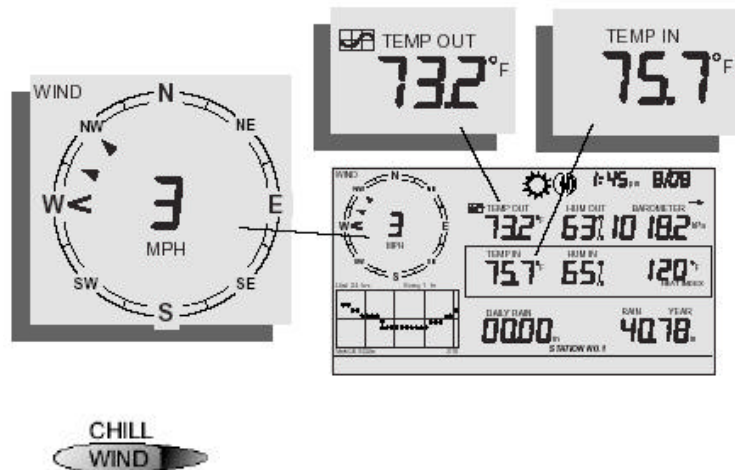
(kph),

(m/s),

(knots)

“2ND”

“UNITS”



가

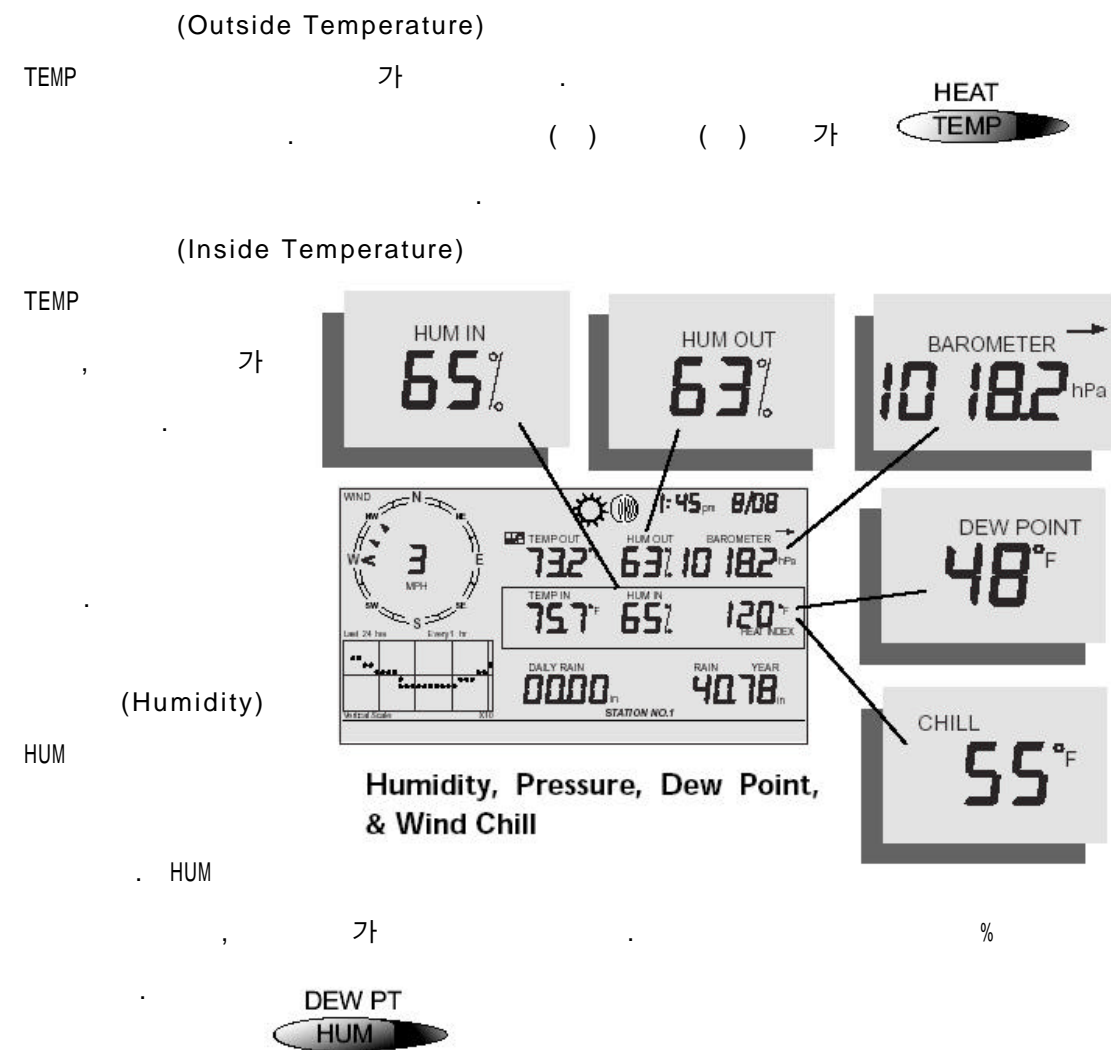
10

가

10

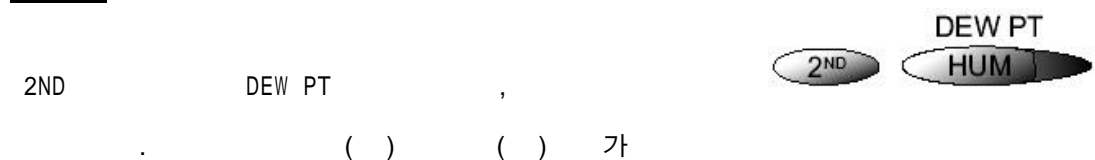
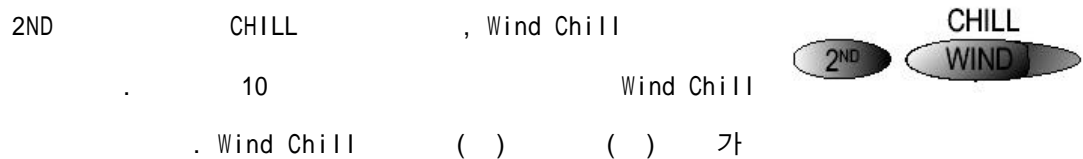
. 60

, WIND



Wind Chill

Current Wind Chill



BAR

(in), (mm), (mb), (hPa)



3

(UV)

UV

UV

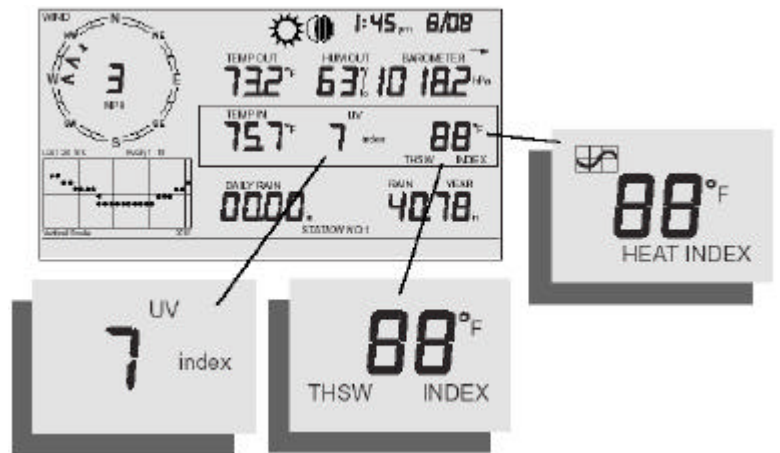


UV 가

MEDS

UV

UV



APPENDIX

2ND

HEAT



UV

APPENDIX

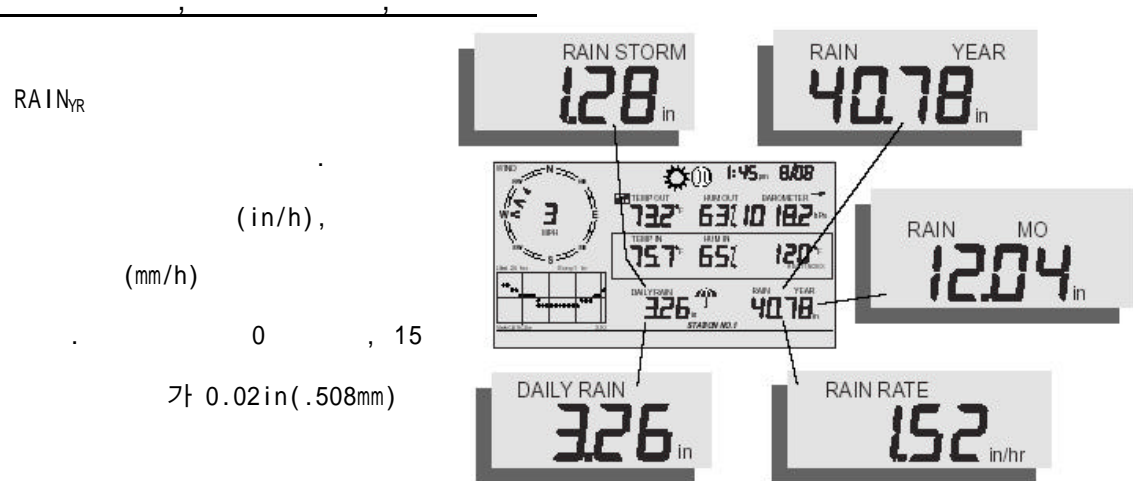
THSW

가

THSW(Temperature-

Humidity-Sun-Wind Index)가

, wind chill () () 가



RAIN_{YR} (in), (mm) 가

RAIN_{YR} 가 RAIN_{DAY} RAIN_{YR}

Note: “ ” “ ” 가

2ND RAIN_{DAY} LAMPS 2ND RAIN_{DAY} RAIN_{DAY} RAIN_{DAY}

(Solar Radiation)

2ND SUN

(W

/m2)

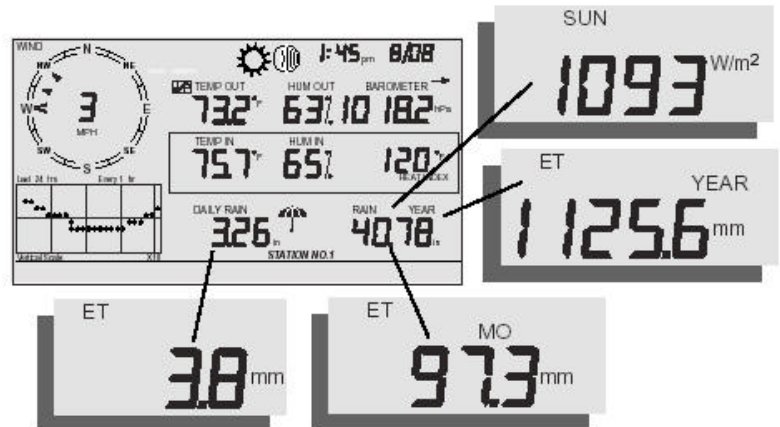


(ET)



2ND

ET



2ND

ET

2ND

ET

2.2.3



, 2ND

UNIT

가

2.2.4 (Calibration)

(Calibration)

가 ,

SET

SET

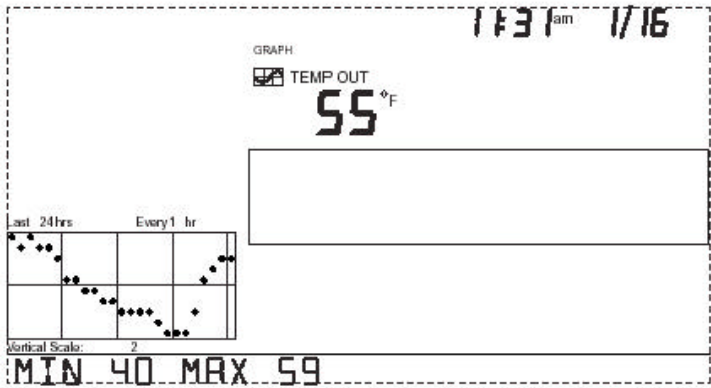
OFFSET

, “+”, “-“

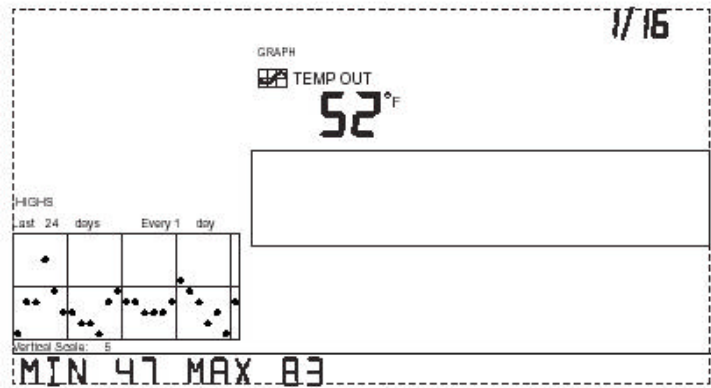
, DONE

2.3

가 가
GRAPH 가 DONE



) 가 TEMP 24
가 ,



) 가
 , GRAPH, TEMP , “_“ 24 ,
24 (日)
HI /LOW
“_“ 24months
가 DONE

3

Davis Technical Support

			PG. ()
		1. . 2. .	11 11
	“ _ _ _ ”	1. (ISS) 2. , 3. “Reception Problems” 4. 5. Calibration numbers가 . Calibration numbers	14 50 59 33
		, LCD 0	14
	“Locks up”	“locks up” OFF , ON	11
		Calibration numbers	33

		1. , . 2. Calibration numbers .	14 14 14
		1. ISS Radiation shield . 2. Calibration numbers .	33
		1. . . 2. Calibration numbers .	14 14 33
		1. . 2. Calibration numbers .	14 33
		1. . 2. . 3. . 4. .	
	0 , 0 가 ,		49

	가 ,	1. – “Reception Problem” . 2. – 3. 가 . .	49
	,	ISS 가 가 . .	
Chill	Wind Chill .	Calibration number . : wind chill .	33
Heat	Heat Index ,	Calibration number . : 가 Heat Index . 가 .	33
	.	Calibration number . : 가 가 .	33
	.	, Rain Collector . ISS .	

(Reception Problems)

Radio signal ,
Metal 가
: “X”가
“R”
“L”

1.

가 DONE “-“
가 ID ?
8

Table 1: Maximum Transmitters per wireless Console/Receiver

Station Type Set ?
8

Table 1: Maximum Transmitters per wireless Console/Receiver

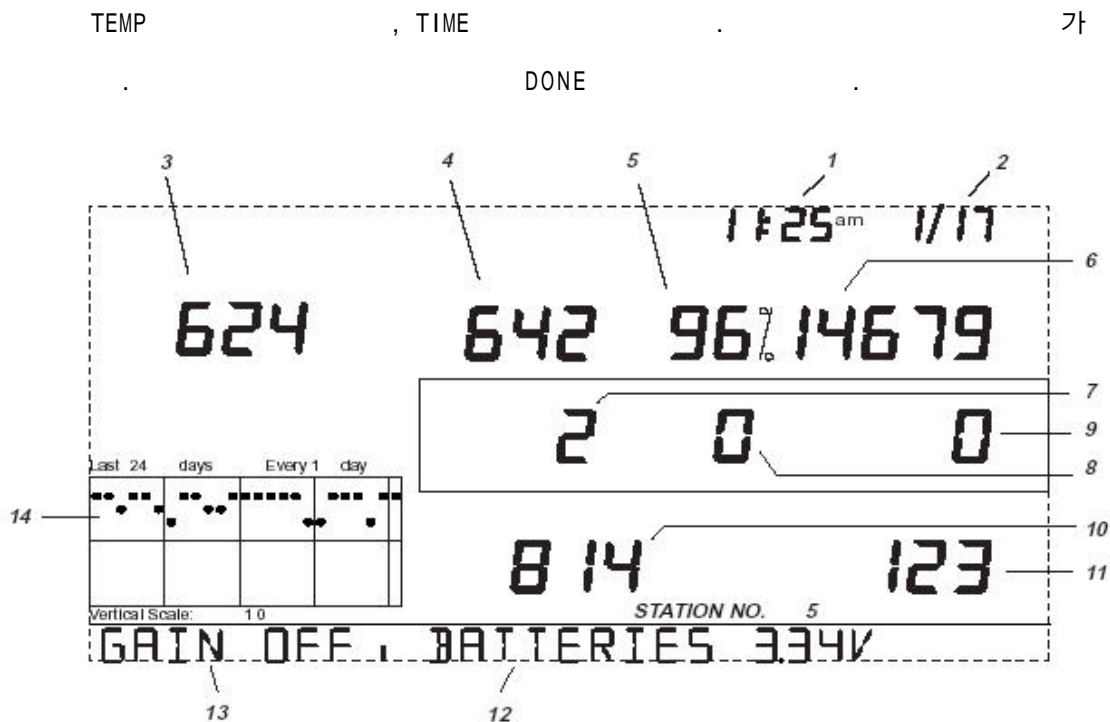
Try turning on the Gain

“Receiver Gain Status”
()
가 가

2. ISS

?

ISS
ISS LED ON
ISS



1. (a) Time of day or (b) number of times the reed switch was seen closed when sampled.

The reed switch closes once each rotation. Use the WIND key to toggle between readings.

2. (a) Date or (b) number of times the reed switch was seen open when sampled. The anemometer counts rotations. The reed switch is part of the anemometer mechanism. WIND key toggles display.

3. (a) Number of CRC errors or (b) 8 bit timer value of next reception. CRC is an error checking protocol. Toggle display with CHILL.

4. Number of missed data packets.

5. Percentage of scheduled data packets received.

6. Total number of packets received.

7. (a) Number of times the console resynchronized with the transmitter or (b) maximum number of packets missed in a row without losing synchronization. Toggle using the TEMP key.

8. Number of times the console lost communications with the transmitter for more than 10 minutes.

9. Current number of consecutive misses. The counter increments when the console is

synchronized but the packet is not.

10. Longest streak of consecutive packets received.

11. Current streak of consecutive packets received.

12. Current console battery voltage

13. Receiver Gain Status

14. Graph of last 24 days' percentage of scheduled packets. Only the ISS data are graphed.

Receiver Gain Status

13 (Receiver Gain Status) . Gain
(Receiver) . 가 ,
HI/LOW Gain ON .

Note

Note

4 Appendix:

4.1

Vantage Pro

가

가 가

4.1.1

Vantage Pro . 10

4.1.2

Vantage Pro

ISS

2

. 가 (Vantage Pro

가)

. 가

가 . (

)

4.1.3 Apparent Temperature

Vantage Pro 가

. : wind chill, Heat Index(),

/ / / (THSW Idex)

wind chill

wind chill

, 가

가

,

,

가

. ,

가

. 91 (32.7) 가 ,

, wind chill .

가

가

. 가 ,

,

가

, (, 가 ,)

Note: Vantage Pro 가 57 (14) ,
 . (57 ,
 =) 135 (52)

THSW(Temperature-Humidity-Sun-Wind)

THSW
 가 THSW 가
 가

Note:	가 가 가 , Vantage Pro THSW
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4.1.4

가
 , 가
 ,
 ,
 , 10g 가 4g 가 ,
 40% . 2g 가 , 60%
 가 가
 (ET)

4.1.5

가 100%
 ,
 가 , 가

4.1.6

Vantage Pro 4 . (rain storm, daily rain, monthly rain, yearly rain) Vantage Pro .01 .254 mm

4.1.7

가 .

(atmosphere pressure) .

가 .

(barometric pressure) .

Vantage Pro 가 ,

Vantage Pro (atmosphere pressure) (barometric pressure)

4.1.8

Global

Solar Radiation .

Note:	Vantage Pro 400~1000nm
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4.1.9

(UV)

가 , , .

Vantage Pro

!!CAUTION: , Vantage Pro UV

UV , Vantage Pro

UV 가

UV 가

UV UV

UV

Vantage Pro 가 MEDs UV MED(Minimum Erythral Dose) 24

U.S. Environmental Protection(EPA) Environmental Canada(EC)

(

)

Vantage Pro UV EC ,

World Meteorological Organization(WMO) UV 0 ~ 16

UV

UV	
0-2	
3-4	
5-6	
7-9	
10+	

4.1.10 (ET)

(EvapoTranspiration:ET)

. Vantage Pro ET

(蒸散)

ET 가 .

4.1.11 Leaf Wetness

Leaf wetness 가

0(dry) ~ 15 .

Note:	Leaf Wetness Vantage Pro가 , Leaf Wetness station .
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4.1.12 Soil Moisture

Soil Moisture . Soil

Moisture 0 ~ 200 centibars ,

Note:	Soil Moisture Vantage Pro가 , Soil Moisture station .
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4.1.13

Vantage Pro 가 .

가 , 가

5

->