Date May (7, 2013 INSTALL SHEET (Q330 Surface Site with Wilan Telemetry) Local Date/Time: 13.04 M 9 GMT Date/Time:
Field Team: Gary Tanner, Paniel
GPS Location of Site:
Equipment
Sensor S/N: Sensor Type: 575-2
Q330 S/N: 010000 A 2 79CE 6 Q330 TagID: 1074
Wilan S/N: Wilan IP: \(\sum_{\lambda} \times \)
Wilan S/N: Wilan IP: WA Clock S/N: 1000198 passcal for
Baler S/N: 05132
INSTALL SENSOR
√Check that compass declination is set to 8° E
Place an arrow on the figure below showing where the declination marks is position on this compass (cross check against above to
avoid sign errors)
5 0 5 W
Guralp 3T
Add layers of landscaping timber to provide clearance for this larger sensorSweep any dirt from the top of the concrete baseAttach the alignment jig and use it to simultaneously level and orient the sensorLock feet of sensorConnect the sensor cable to the sensor and then to the DAS (leave enough slack to allow you to reattach the alignment jig)Reattach the alignment jig and fill out the alignment table below (4 measurements). If initial orientation is off by more than degree align and relevel before making final measurements.
Trillium or CTC2
weep any dirt from the top of the concrete pad Use a ruler and sharpie to scribe an alignment line on the concrete base for this sensor Connect the sensor cable to control box and sensor Align the sensor using the mark and the alignment rod, level, repeat until level and aligned (fill out table below) ALL SENSORS
Align the sensor using the mark and the alignment rod, level, repeat until level and aligned (fill out table below)
Use a fish tape to pull the DAS to control box cable through the fire hose and connect both ends Unlock masses
Cover vault with at least 2 layers of black plastic Bury sensor using sandbags filled with dirt, mound dirt ton top of vault cover, and add mulch to top

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)	UJ	حصرا

2

Use Brunton compass adjacent to sensor measurement jig, measuring North (N) and South (S). Reverse the jig and repeat recording the 4 measurements below. Record to your best guess of the nearest 0.1 degree. If orientation is more than 1 degree away from NS try to realign. For Trillium and STS2 sensors use left and right side of alignment rod

	Brunton Left (N)	Brunton Left (S)	Brunton Right (N)	Brunton Right (S)	Watda
	The state of the s	The same to place a second discount of the same and the s			seen
l			The second section of the section of th	The second secon	ater
VInsta VReco VInsta VIN	onfigure guy wire the the dog house re all GPS on top of all Wilan radio or GPS and networe meet the baler to the system tests: attery voltage (Vanel output test:	near the solar panel pole (must see the solar panel the pole (make sure k cables and connect the Q330) 12.5 ested (circle one):	pole with the door factorsky) The the antenna is on the to Q330 (do not but to Q330 and but to Q330 (a) sun on panels, (b)	eing downhill to allow we side facing Yates) andle up until testing is fir cloudy, (c) sun on panels	nished)
_√_Plug	g battery into pow	ver box. Record vo	Itage showing on LC	D display (V) <u>12 5</u>	
Con If al	g battery into pow nect both solar pa I looks ok, conne	ver box. Record vo anels to power box. act the Q330 to power	Itage showing on LC Record voltage on d er (Note with Guralp		l now)
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Connect sensor to Q330 AFTER Cloning the Q330 for correct sensor type

Date 5/17/2015	Station	SHL	3
SENSOR Unlock Procedure CMG-3T: Attach extra power to 3T BOB. Use the BOB to test if the se Enable Buttons for about 10 seconds. Watch the LED light (4)	nsor is locked. P	Press and hold both the Lc	
use.) Next, unlock the sensor. Press and hold both the <u>Unlock</u> and <u>I</u> buttons when the LED light illuminates (2 blinks and solid re TURN OVER			ease
STS-2: Use an STS-2 screwdriver to smoothly unlock all 3 elements. using the button on the host box. Views > Sensor: !Center A (STS-2)	Give the STS-2	and initial centering puls	se
**Nain Current: Shan A *Input Volts: 1 25 *Temp: 1	ઢ .≇Last Resy	nc: 2015-5-18 0: 4;	16
*Clock Quality:	of Tolles	4545	
Status -> GPS *GPS Time: *GPS Date: *Height: *Latitude:	*Longitude	(given in DD/MM/YY	YYY)
☐ Views ->Sensors !Refresh *Boom Positions (within +/-15, i.e. within +/-1.			Í
123** If the Boom Positions are out – recenter sensor: Views ->Sensors!	Center A	1 wto, coll tump ole	
	5-	turny ole	
L Views ->Quickview ->chan 1,2,3 -> !Start Stomp test: ch 1: □ OK ch 2: □ OK ch 3: □ OK (stomp seen?) -> !Stop Write values: ch 1: maxmin RMS ch 2: maxmin RMS ch 3 maxmin RMS ch 3 maxmin RMS	1	'	
ch 3: ☐ OK (stomp seen?) ->!Stop	ul		
Write values:			
ch 1: maxmin RMS ch 2: maxmin RMS			
ch3 max min RMS			
(Values should be ~10,000 counts)			
☐ Status -> Data Port Txfr -> Data 4 *Packet buffer used (increasing?) YE	NO		
☐ Commands ->Baler Cmds Turn on baler power control ☐ !Send Baler Command (Baler should turn on) Do NOT u Note: If the baler times out BEFORE finish		to power baler	
☐ Status -> Data Port Txfr -> Data4 *Packet Buffer (Decreases to zero) Y	ES NO		
*Data packets sent			
NOTE: If the Q330 does not transfer data to the Baler try clearing the Baler "abutton in until the light turns solid red (~5 sec). Release the button and then, at Attention button once to shut down the Baler. Repeat the process once more as	— association" by hater the light beg	ins to flash green, press t	
☐ Status->General*Total ReSyncs			
☐ Views ->Sensor: *Boom Positions (less than +/-15, i.e. less than +/-1\(^1\).5 vol	rs)		
123			
☐ App ->Make Docfile !OK to default filename Conf-YrMoDy-Q330		·	
SITE NOTES (Anything strange or notable) (1) Orientation 155 res. En Steel form pe magnetic. Get 5 difference on p level of top of vaull- Used sighting to Serious according 155 rec (2) Gets did not lock he forouse had to wet condition. We need to visit so	odord of stick	A seems to, above at from above Verscolder in the we	A eL
to verify GPS 15 working			

Station	Nomo
Station	TVallie

4

Checklist

Paperwork
Completed pages 1-3
Sensor
Compass declination set and recorded
Oriented
Level
Feet locked
Power system
Battery terminals tight
All power box connection tight
Any external power cables to box secured from rodent damage
Cables in the air have drip lines
No cables are on the ground without protection
SOLAR: panel boxes closed
AC: battery minder plugged in powered
Q330
Completed paperwork on pages 1-2
Acquiring data
All unused connectors capped
Site
Multiple layers of plastic on top of vault
Plastic configured to not collect water around sensor vault
Vault well covered with sandbags and dirt (6 inches minimum)
Cables all secured
Dog house door is secured
Cable entry plugged with plumber's putty