
accQlink™







Quick Start Guide



Part # 60-8303-002
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Important Information

	<p>Contact Teledyne ISCO Support for technical support: iscoEPS@teledyne.com (402) 853-5350 (866) 298-6174</p>
	<p>Always coordinate installation with the local authority before starting installation works, which should be completed by trained and authorized personnel.</p>
	<p>Teledyne ISCO is not liable for damage or injury as a result of handling, installation, or maintenance of its supplied systems.</p>
	<p>Do not throw away the accQlink, as it contains a lithium battery. Please dispose of properly.</p>
	<p>4G (LTE)/3G/2G cellular network signal.</p>
	<p>Operating temperature range of -40 °C to -80 °C (-40 °F TO -176 °F)</p>

accQlink Basic Quick Start Guide

Table of Contents

1. accQlink

1.1 Schematic of the accQlink	1-1
1.2 Getting Started	1-3
1.3 Sensor Connection	1-6
1.3.1 Antenna Connection	1-7
1.3.2 accQlink Activation	1-8
1.3.3 accQlink Activation	1-9
1.4 accQlink Pinout	1-12
1.5 Wiring Instructions	1-14

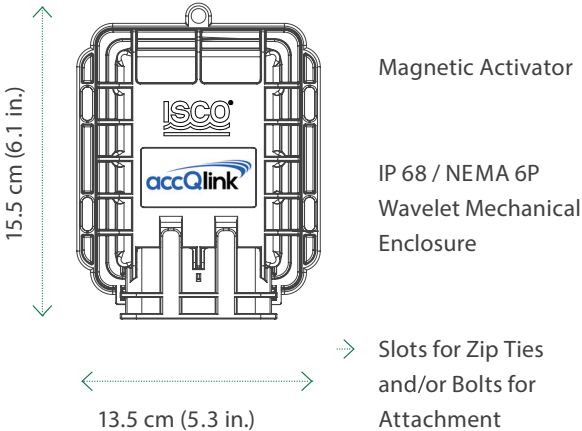
accQLink Quick Start Guide

Section 1 accQlink

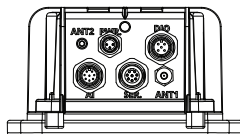
1.1 Schematic of the accQlink

External (Front)

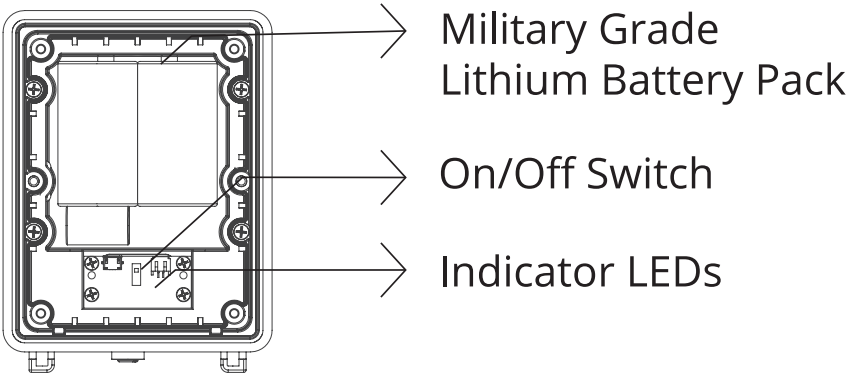
Top Mounted
Bolt Hole



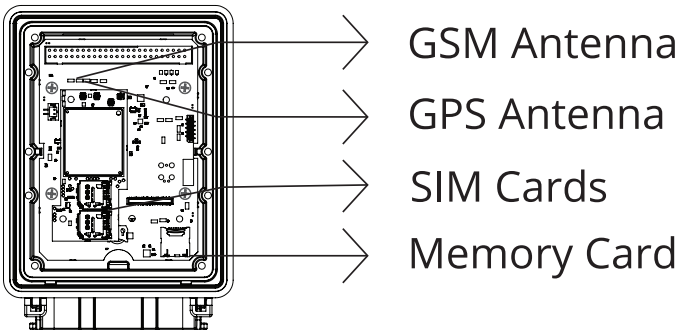
External (Bottom)



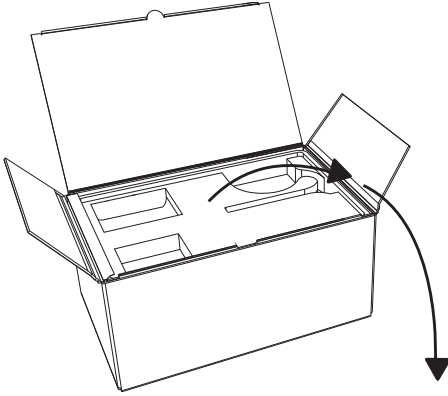
INTERNAL (LAYER 1)



INTERNAL (LAYER 2)

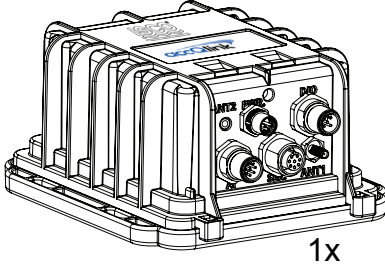


1.2 Getting Started

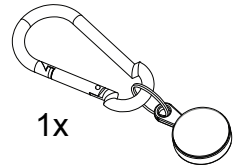


Basic accQlink Kit

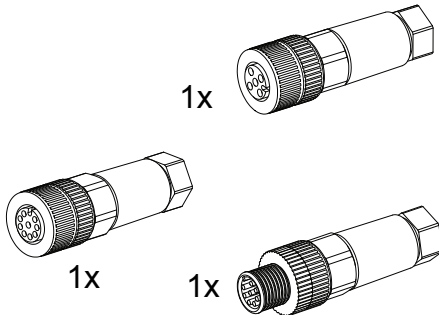
1. accQlink & Protector



2. accQlink Activator

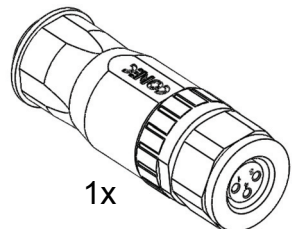


3. M12 Field Attachable Connectors (Sensors)

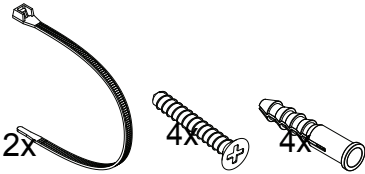


4. M8 Female Field Attachable Connector (Power)

Note: optional, see pg. XX

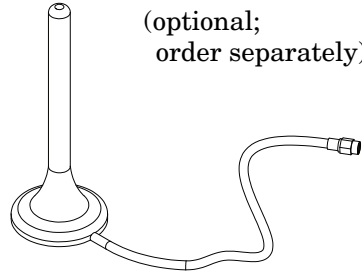


5. Zip ties, screws, and anchors



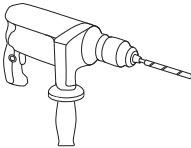
6. GSM Antenna

(optional;
order separately)

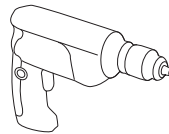


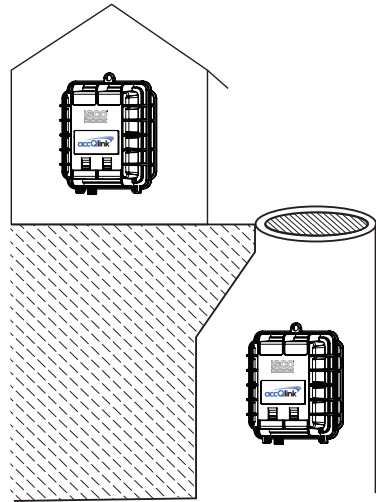
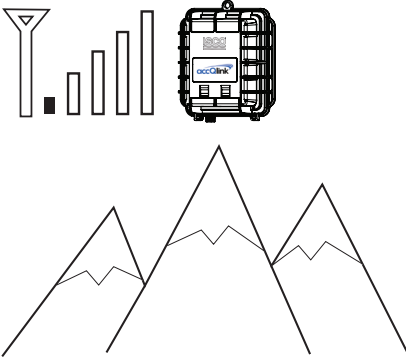
Other tools and/or materials may be required (not included):

Rotary Hammer



Electric Screw Driver



Note**Special Installation Locations****Weak Signal Location:**

If the accQlink is installed in an area with a weak signal, activate the accQlink and place it in the installation location with the closed doors/access hatch. (See step 3).

Log in to:

<https://home.iscoaccqlink.com/>

ensure that the cellular signal had been recently updated in the last few minutes.

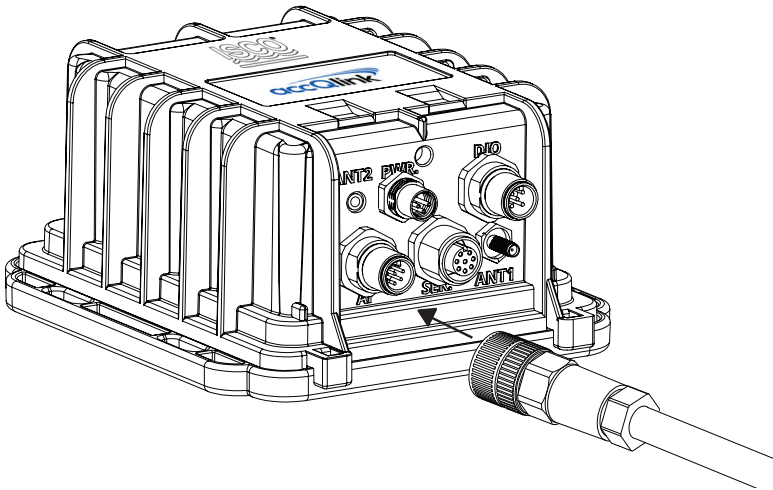
Underground/Indoor accQlink Installations:

Before installation, initiate the GPS outside by activating the accQlink (See step 3.)

Wait at least 15 minutes, then log into the user interface at <https://home.iscoaccqlink.com/> to confirm updated location on the map.

1.3 Sensor Connection

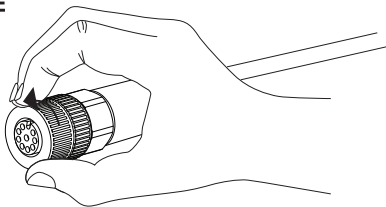
1. Connect the sensor cable(s) assembly with the field attachable connector to the mating panel connector on the accQLink. Turn the adjustable stainless steel end piece to secure the field attachable connector to the accQLink.



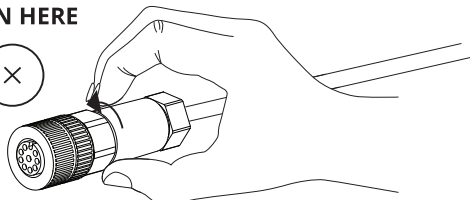
CAUTION

Do not turn the black plastic hood of the connector. Turning the black hood may cause the wires to disconnect, break, and/or damage the connector pins.

TURN HERE

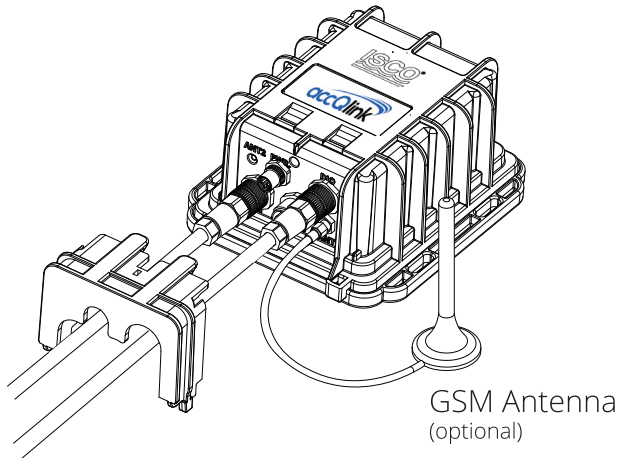


DO NOT
TURN HERE



1.3.1 Antenna Connection

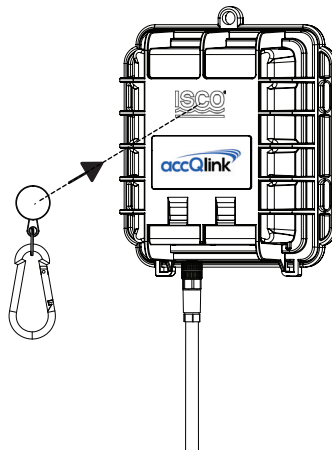
2. Connect the GSM antenna to antenna port.



Note

The antenna does not appear in the remaining depictions in this guide, but should remain connected once properly secured to the appropriate panel connectors.

3. Place the magnetic accQlink activator on the embossed Teledyne ISCO logo on the front of the accQlink enclosure. accQlink will initiate a 10 minute test mode of high frequency sampling and transmission. The device will then return to its default configuration.



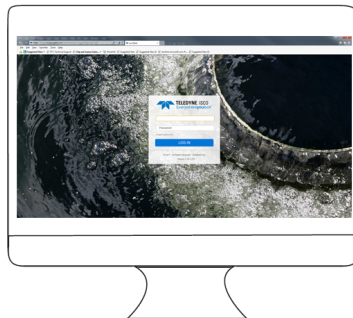
1.3.2 accQlink Activation

4. The LED light on the back cover of the accQlink will indicate the device status.

Table 1: LED Status Indications

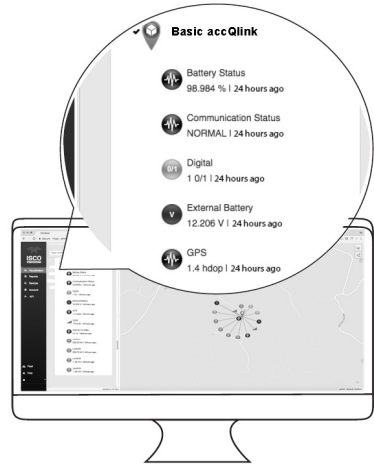
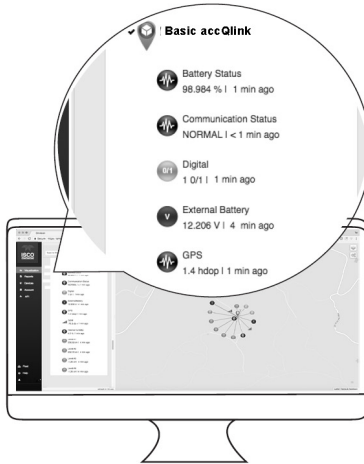
LED	Device Status
All LEDs are OFF	Not connected to a network. The LED lights do not blink when the device is sampling. NOTE: accQlink may be powered down (power switch is in the OFF position), in Hibernate mode, or have insufficient battery power.
Green-Red-Blue-Red-Green LEDs blink sequentially 5 times	accQlink activated using the magnetic activator.
Green LED is blinking	Attempting to connect to GSM network.
Green LED remains ON	Transmission of data is in progress via GSM; the LED will turn off when transmission is complete.
Green and Red LEDs blink 5 times	GSM communication error. The device failed to transmit.

5. Access the accQlink user interface at <https://home.iscoaccqlink.com/> using your log-in credentials. Expect data to appear between 5 – 10 minutes after the test mode is initiated.



1.3.3 accQlink Activation

6. The screen display should resemble the following:

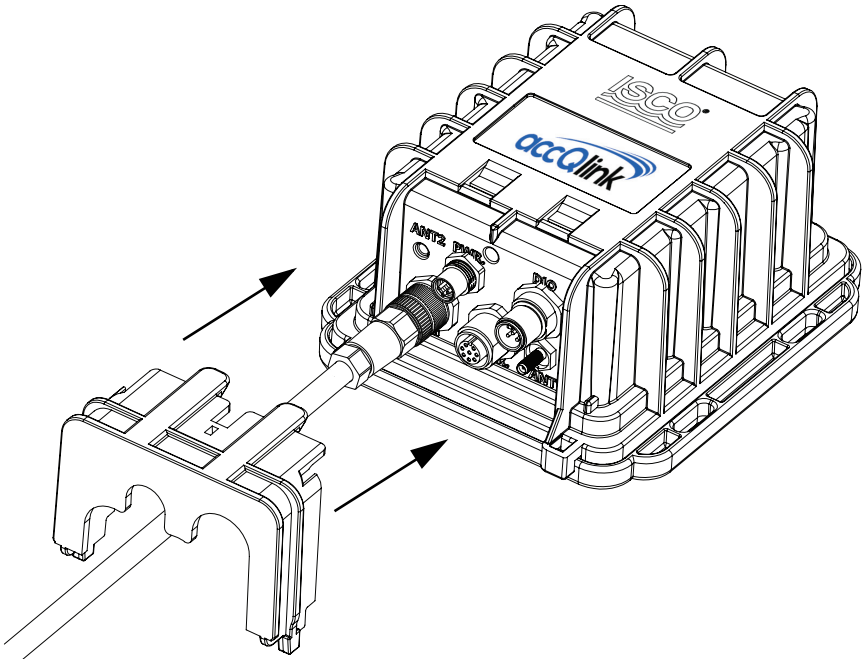


If the accQlink is transmitting properly, you have completed the installation successfully and can begin collecting and viewing your data.



If data does not transmit properly, change the accQlink installation location and activate again. If the problem persists, contact Teledyne ISCO support.

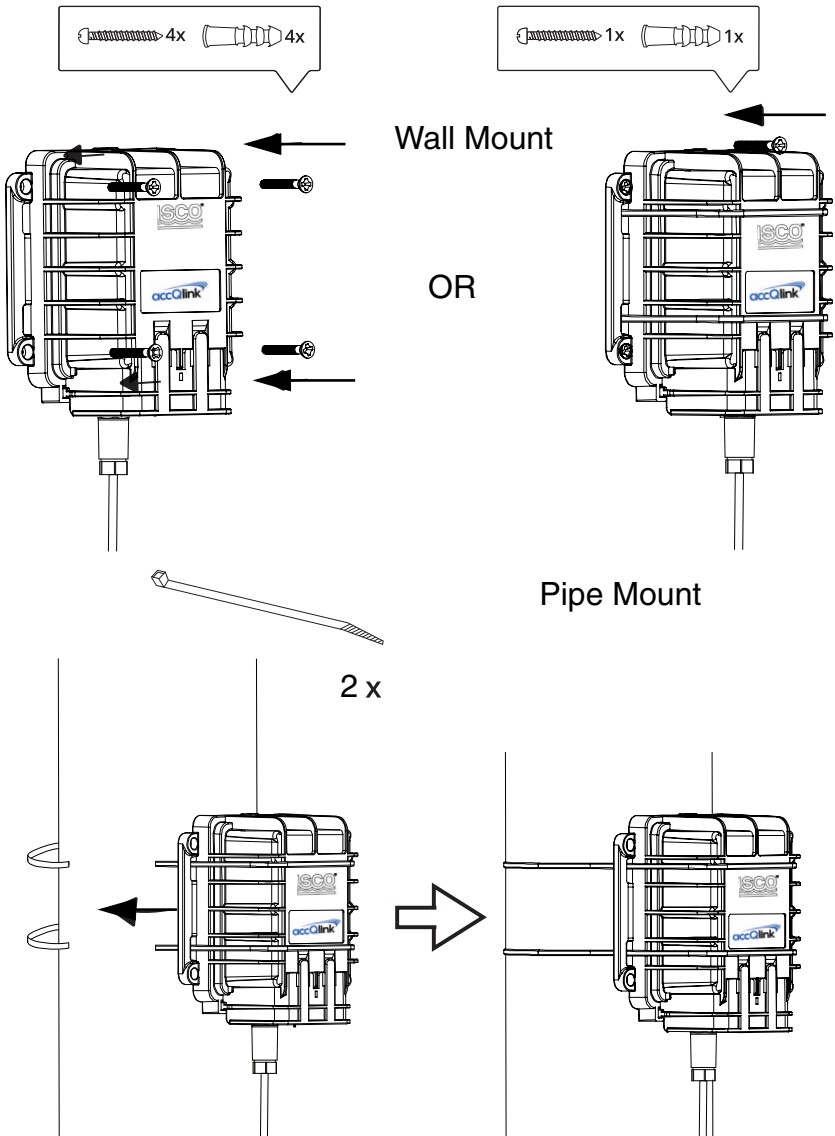
7. After the accQlink completes the transmission process, place the accQlink protector above the connector ports and secure the accQlink protector into the accQlink enclosure.



CAUTION

The protector is provided to shield the connector from tampering or overexposure that could result in disconnected wiring.

8. Secure the accQlink on a wall or pipe using zip ties or screws.



Your Basic accQlink Kit is now successfully installed.

1.4 accQlink Pinout

Table 2: Analog-Panel Connector #1- M12 8-Pin Male

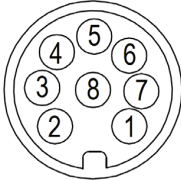
Connector Pin #	Function	Description	Pin Assignment
1	Signal	4-20mA or 0-24 V input #1	
2	Common	Negative (-)	
3	Supply+	accQlink 12 V Power Supply #2 (+)	
4	Supply+	accQlink 12 V Power Supply #1 (+)	
5	Signal	4-20mA or 0-24 V input #4	
6	Signal	4-20mA or 0-24 V input #3	
7	Signal	4-20mA or 0-24 V input #2	
8	Common	Negative (-)	

Table 3: Serial- Panel Connector #2- M12 8 Pin Female

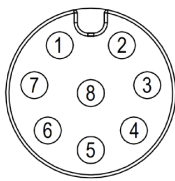
Connector Pin #	Function	Description	Pin Assignment
1	Signal	RS232 TX	
2	Supply+	accQlink 12 V Power Supply #4 (+)	
3	Supply+	accQlink 12 V Power Supply #3 (+)	
4	Signal	SDI-12	
5	Signal	RS485 B	
6	Signal	RS485 A	
7	Signal	RS232 RX	
8	Common	Negative (-)	

Table 4: Discrete- Panel Connector #3-M12 5-Pin Male

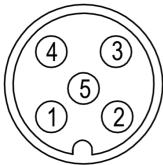
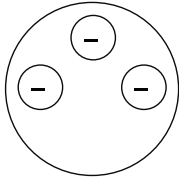
Connector Pin #	Function	Description	Pin Assignment
1	Signal	Pulse Counter/Digital Input #0	
2	Common	Negative (-)	
3	Signal	Pulse Counter/Digital Input #1	
4	Common	Negative (-)	
5	Signal	Digital Input/Output #1	

Table 5: Power-Panel Connector #4-M9 3-Pin Male

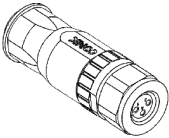
Connector Pin #	Function	Description	Pin Assignment
1	Supply (+)	5-28 VDC (+)	
3	No Signal	No Connection	
4	Common	Negative (-)	

1.5 Wiring Instructions

If an external power connection is desired, refer to the instructions below:

EXTERNAL POWER:

M8 3-Pin Female Power Connector



+ Installation Tool for Wire Termination (Included)

