

Features

- High security wireless link to the Recorder.
- View the ISAAC real-time display up to 300 meters (990ft) away from the Recorder.
- Wireless data download from the Recorder to a PDA or a PC.
- 2.4GHz Bluetooth 2.0 qualification.
- Water-tight, rugged, epoxy-filled small size enclosure.
- MIL spec vibration-lock D-sub connector or Deutsch connector.

Description

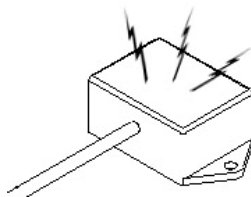
The COMBLU module, connected to the Recorder COM port, is used to transfer data from the Recorder to a PDA or a PC through a secure RF link. The unit offers both Bluetooth authentication and encryption security.

Two different types of connector, making it compatible with all ISAAC Recorders.

Part Number	Connector type
COMBLU-301-DR8	Deutsch DTM04-8P
COMBLU-301	Vibration-Lock DB9M

Installation

- Connect the module to a COM port of the Recorder.
- For maximum performance, position the module such that the antenna points toward the desired direction.



- Do not install module in a metallic enclosure.
- Make sure that the connectors are fully engaged.
- Route the sensor cable away from sources of interference, such as ignition coils, plug leads, electronic modules or antennas.
- Verify that the cable is not pinched or stretched by extreme suspension or steering movements.
- Do not bend cable with curvature radius smaller than 1.60" [40 mm].



COMBLU-301 (with Deutsch connector)

Calibration

COM port Activity	COMBLU, Bluetooth transceiver
Baud Rate	115200
Encryption Enabled	Enables 128-bit encryption on the Bluetooth link. To establish a connection to the Recorder, the authenticity process requires both Bluetooth enabled devices to have the same Bluetooth pass code .
Bluetooth Passcode	Specify the password when Bluetooth encryption is enabled. (up to 7 alphanumeric characters)

Specifications

Description	Symbol	Min	Typ	Max	Unit
Power Supply					
Input Voltage	V_{in}	3.3		6	V
Input Current	I_{in}	10	22	170	mA
Operating Temperature	T_{Oper}	-30		85	C
Storage Temperature	T_S	-40		85	C
Communication Range		0 (0)		300 (990)	m (ft)
Mechanical Specifications					
Height	H		28 (1.1)		mm (in)
Width	W		76 (3.0)		
Depth	D		39 (1.5)		
Weight	w		82 (2.9)		g (oz)