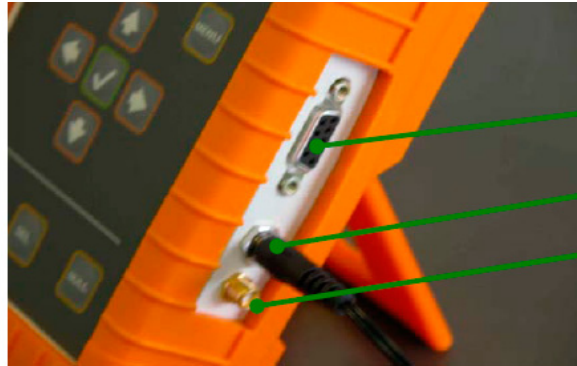


Fiber Optic Temperature System to BIOPAC MP Unit

Connections and Calibration



RS-232 Connector

Wall Supply connector

±5 V Analog output:

CBL101 to MP1X0 analog channel (UIM100C)

1. Connect the BIOPAC interface cable between the FOTS100 Analog output and an MP analog channel.
2. Adjust the FOTS100 Offset and Scaling (see the **FOTS100 User Manual** for instructions):

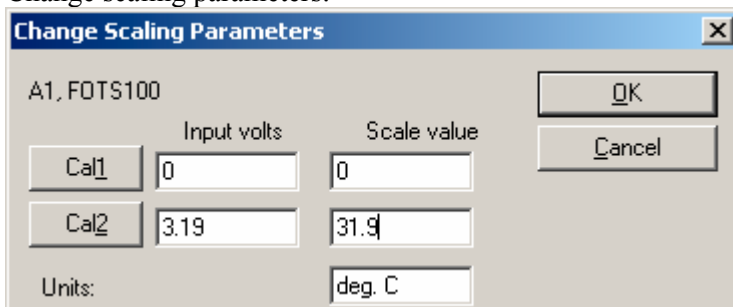
a. Offset to 0.

b. Scaling to 10 or 20 degrees (this makes the scaling values easy to calculate).

3. Wait for the FOTS100 temperature reading to stabilize and then note the temperature—for example, 31.9:



4. Launch the BIOPAC *AcqKnowledge* software.
5. Open channel scaling for the analog channel the FOTS100 is connected to (MP menu > Set Up Channels > Scaling).
6. Change scaling parameters:



AcqKnowledge

- a. **Cal1:** Input = 0, Scale = 0
- b. **Cal2:** Input = FOTS100 temp/FOTS100 scaling, Scale = FOTS100 temp
 - If you've set the FOTS100 scaling to 10, it's easy to calculate Cal2 input.
- c. **Units:** enter a units label to match the FOTS100 units.



FOTS100 Units Setting

7. Click OK as needed to close out of scaling and channel setup.