EXERGEN TECH NOTE 34 Infrared Temperature Sensors User Manual

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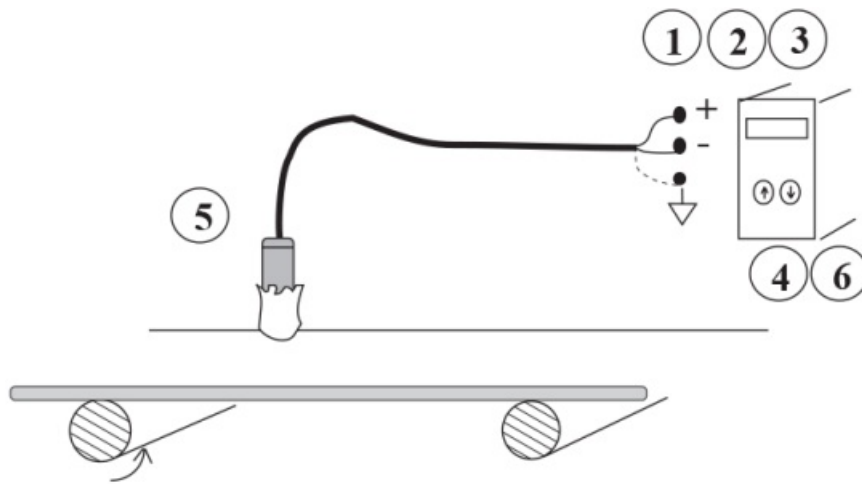CORPORATION

Infrared Temperature Sensors

TECH NOTE 34

CHECKING IRt/c AMBIENT TEMPERATURE

In many installations, it may not be clear whether cooling is required, and it may not be easy to obtain the temperature of the environment experienced by the IRt/c. The IRt/c itself will tell you what its own temperature is, by using the procedure illustrated below.

The basic method is to temporarily "blind" the IRt/c using aluminum foil, so that it can only see itself. The temperature that it produces is then its own temperature only.

Before running this test, be sure to check for leakage current offsets as described in the manual.

1. Place IRt/c close to controller and cover IRt/c with aluminum foil.

2. Wire connections in standard fashion.

3. Short the input to obtain the leakage current offset (see Manual).

4. Adjust OFFSET, ZERO, or LO CAL to correct the offset as required.

5. Install IRt/c in operating environment and monitor the display temperature.

6. If below 200 F (100C) no cooling is required.

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