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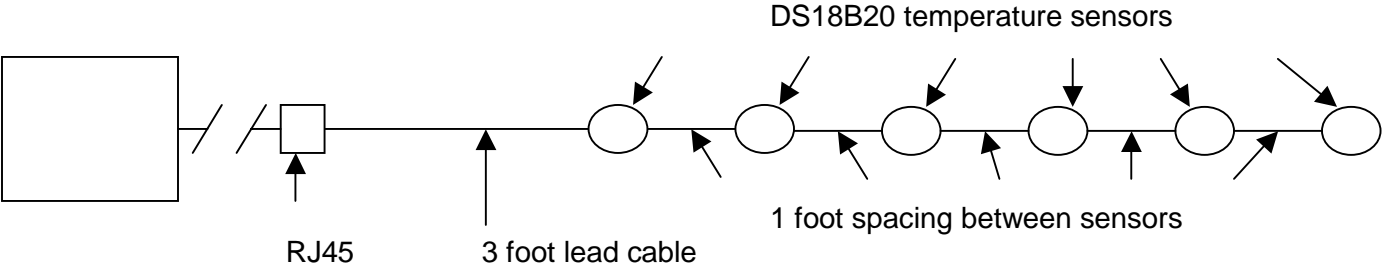
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T-String

T-String™ is very useful in a variety of applications, however the design was driven by the demand for economical temperature measurements in electronic equipment racks and cabinets. The spacing and length are optimized for a 72" rack. It will measure temperature strata from top to bottom at 1 foot intervals.

The T-String™ is designed to run on the 1-Wire™ bus, and consists of 6 temperature sensors mounted in parallel, on an 8 foot cable. Each one of the DS18B20 sensors has a unique 16 digit address. One end of the cable is terminated with a male RJ45 connector. The first sensor is mounted three feet from the RJ45 connector, with the remaining 5 sensors placed 1 foot apart.



The sensor closest to the RJ45 connector will report its temperature first and the sensor adjacent will report next, and continue down the cable to the 6th and last, sensor. The reporting sequence is fixed in the firmware of the LinkT-S at the time of manufacture and cannot be altered. T-String is sold with a LinkT-S included, making it fully functional and simple to deploy.

The high temperature range of the T-String is limited by the PVC coating on the cable. The rated temperature for the PVC sheathing is 140 F, or 60 C. The approximate response and recovery times of the DS18B20 sensors can be seen in appendix 1 of the T-Sense manual.

Each sensor is mounted on a small printed circuit board and enclosed by our low pressure molding process. The upper half of the DS18B20 sensor is not molded, allowing response times that are very close to a bare sensor. The benefits of the molding process are: No conductive surfaces are exposed and it provides excellent strain relief on all connections. It may be worth noting that the T-String™ is highly weather resistant and, though it has not been tested, it is likely to be waterproof.

There are no other devices involved in the circuitry, so the basic operating specifications of the DS18B20 are valid for T-String. Briefly stated, the specifications are: Temperatures from -55°C to $+125^{\circ}\text{C}$ (-67°F to $+257^{\circ}\text{F}$); $\pm 0.5^{\circ}\text{C}$ accuracy from -10°C to $+85^{\circ}\text{C}$.

The complete data sheet for the DS18B20, can be found on our web site;
<http://www.ibuttonlink.com/ds18b20.aspx> .