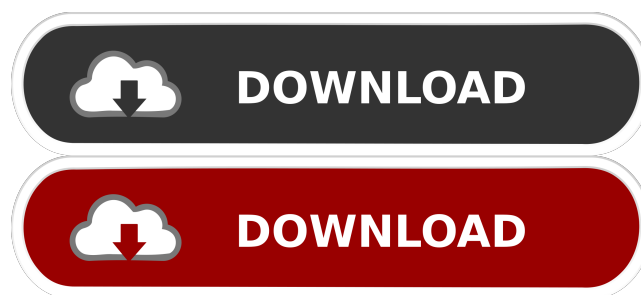

S20 T10 T11 T20e T26 T30 Tx600fw By Orthotamine Rar



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Sensor Calibration ===== The relative humidity sensor requires calibration at the start of the experiment to compensate for the effect of the environmental temperature on the sensor response. For this, the relative humidity is varied over

a wide range (20–85%) and the voltage output from the sensor is recorded at the specified temperature. As the temperature of the relative humidity changes the sensor resistance changes with it and a compensation table is made using the measurements. The sensor is then set to the temperature of the experiment. The response of the sensor to humidity can be shown as a function of the temperature in Fig. \[fig:sensorResponse\]. ![Response of the relative humidity sensor vs. temperature. \[fig:sensorResponse\]](Figures/Fig12){width=".5\textwidth"} Following calibration, the humidity is increased and the output voltage recorded. A similar procedure is followed to get the sensor response vs. relative humidity. The relative humidity is varied over a range of 20-85% and the output voltage recorded at the specified temperature. A plot of the sensor response vs. relative humidity is shown in Fig. \[fig:sensorResponseHH\]. The sensor response was found to be approximately linear between the values of 20-85% as shown in the inset of Fig. \[fig:sensorResponseHH\]. ![Response of the relative humidity sensor to relative humidity. \[fig:sensorResponseHH\]](Figures/Fig13){width=".5\textwidth"} Evaluation of the Wireless Beacon Node ===== The RF beacon node is designed to transmit data through a 0.4 m outdoor UHF omnidirectional range (UHF-OF) antenna connected to an off-the-shelf UHF-OF UHF radio-frequency (RF) transmitter module. The base station is designed to receive the transmitted signal and the data is decoded using a QR code reader in a smartphone. The transmission is carried out using the TX600 firmware and was setup and tested as shown in Fig. \[fig:networkEvaluation\]. ![Network setup and evaluation \[fig:networkEvaluation\]](Figures/Fig14){width=".5\textwidth"} The TX600 firmware has an option to work in either transmission or reception mode, and the firmware of the RF transmitter module can 82157476af

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