GTOR Engine Dyno

GT Off-Road Racing | Data Acquisition

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# 1.0 Overview/Function

# 2.0 Hardware Reference

## 2.1 HE sensors

The HE sensors

## 2.2 Load cell sensor

The load cell

# 3.0 Software Theory of Operation

Arduino

# 4.0 Revision History

# 5.0 References

## 5.1 Parts List

|  |  |  |  |
| --- | --- | --- | --- |
| Part | Qty. | Unit Price | Desc. |
| [Hall Effect Sensor](https://www.digikey.com.mx/en/products/detail/ams/AS5047D-ATST/7793473) | 4 | 6.83 | Enables RPM |
| [K-type thermocouple sensor](https://www.digikey.com/en/products/detail/adafruit-industries-llc/4101/10245127?s=N4IgjCBcoLQdIDGUAuAnArgUwDQgPZQDa4ArAEwAcIAugL517nEgAsYADBPUA) | 2 |  | Allows the |
| [K-type thermocouple wire](https://www.amazon.com/REED-Instruments-TP-01-Beaded-Thermocouple/dp/B008S0K9KU/ref=sr_1_12_sspa?dchild=1&keywords=k-type%2Bthermocouple%2Bno%2Bprobe&qid=1601422300&sr=8-12-spons&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEyMjROSTdPSjdSWUU0JmVuY3J5cHRlZElkPUEwNTE3OTEyMjBHTjVUUjE3UDQ0MSZlbmNyeXB0ZWRBZElkPUEwOTY5MjUwM0hFUExDUkxORVpRTyZ3aWRnZXROYW1lPXNwX210ZiZhY3Rpb249Y2xpY2tSZWRpcmVjdCZkb05vdExvZ0NsaWNrPXRydWU&th=1) | 2 |  |  |
| [E-stop button](https://www.amazon.com/JMAF-Mushroom-Emergency-Button-Switch/dp/B07BCY7HGN/ref=sr_1_6?crid=QSMVASRT2Y4X&dchild=1&keywords=e+stop+push+button&qid=1601428307&sprefix=e+stop+%2Caps%2C171&sr=8-6) | 1 |  |  |
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