|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sensor Wiring for CR1000X + VOLT 116 | | | | Revised 2024-Feb for EasyFlux-DL v1.2+0.1rc1 | | | |
| **Description** | **Channel** | **Color** | **CR1000X** **Terminal** | **Description** | **Channel** | **Color** | **VOLT 116 Terminal** |
| Sonic/IRGA control box  (EC100)  EC150 or IRGASON | SDM data | green | C5 | PAR sensor  (LI-190 series) | PAR signal | red | Diff 8H |
| SDM clock | white | C6 | signal reference | black | Diff 8L |
| SDM enable | red/brown | C7 | signal ground | white | AG⏚ |
| SDM reference | black | G | shield | clear | AG⏚ |
| SDM shield | clear | AG⏚ | Tipping bucket  (TE525WS) | rain signal | black | P1 |
| power in | red | *use +12V rail* | signal reference | white | AG⏚ |
| power ground | black | *use -G rail* | shield | clear | AG⏚ |
| GPS receiver  (GPS16X-HVS) | PPS | gray | C1 | Soil temperature  (TCAV #1) | sensor signal | violet | Diff 1H |
| transmit data (TX) | white | C2 | sensor reference | red | Diff 1L |
| receive data (RX) | blue | G | shield | clear | AG⏚ |
| shield | clear | AG⏚ |  |  |  |  |
| power in | red | 12V |  |  |  |  |
| power ground | black | G |  |  |  |  |
| power switch | yellow | G |  |  |  |  |
| Temperature/  rel. humidity probe  (HMP155A) | temp signal | yellow | 7H | Heat flux plate  (HFP01 #1 of 2) | sensor signal | white | Diff 5H |
| RH signal | blue | 7L | sensor reference | green | Diff 5L |
| signal reference | white | G | shield | clear | AG⏚ |
| power in | red | 12V | Heat flux plate  (HFP01 #2 of 2) | sensor signal | white | Diff 6H |
| power ground | black | G | sensor reference | green | Diff 6L |
| shield | clear | AG⏚ | shield | clear | AG⏚ |
| 4-way net rad (SN500SS)  Address: **A** | SDI-12 data | white | C3 |  |  |  |  |
| Shield | clear | AG⏚ |  |  |  |  |
| Power | red | 12V |  |  |  |  |
| Power ground | black | G |  |  |  |  |
| Tipping bucket  (TE525WS) | rain signal | black | P1 |  |  |  |  |
| signal reference | white | AG⏚ |  |  |  |  |
| shield | clear | AG⏚ |  |  |  |  |
|  |  |  |  |  |  |  |
| Soil T/VWC  (Acclima TDR) | SDI-12 data | blue | C3 |  |  |  |  |
| SDI-12 power | red | *use +12V rail* |  |  |  |  |
| SDI-12 reference | white | *use -G rail* |  |  |  |  |
| Energy balance sensors x2: SDI-12 address 1 & 2 | | | |  |  |  |  |
| Profile sensors x6: SDI-12 addresses 3..8 | | | |  |  |  |  |