



V-Max 4000

Modular Data Acquisition System





V-Max 4000

Product Overview

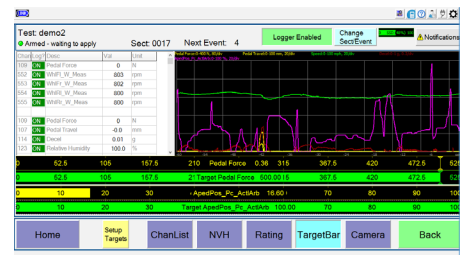
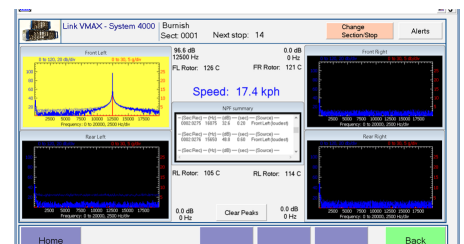
Link Engineering Company's V-Max 4000 provides the latest in modular data acquisition system technology. The combination of high sampling rates, reliability, modularity and versatility make the V-Max 4000 ideally suited for your precise test applications while meeting your specific budget requirements.

Key Benefits

The LINK V-Max 4000 is more than a data logger.

- Runs ProLINK, common to LINK laboratory systems
 - Allows vehicle to laboratory transformation
- Records in LINK standard data format up to 1000 channels
 - 1000+ summary variables on every recording
 - Sample rates up to 51.2 kHz depending on channel
- Localized technical/calibration support in most regions of the world
- Ability to provide audio prompts to user for instruction and feedback
- Out-of-the box data logger and programmable system
 - Add-ins allows custom functionality
 - Custom test prompting
 - Immediate end-of-recording user feedback
 - Library of add-ins included
 - LINK can help develop a custom test system
- Data and video synchronization
- Multi-data acquisition systems connectivity
- Designed to aid the driver in successful test execution
 - Driver prompts
 - Configurable heads-up display
 - Commenting interface
 - Customizable target bars with ramp rate functionality
 - Channel saturation warnings

Real-time NVH Analysis on the fly



2 Test Smarter.



Data Logger Screen

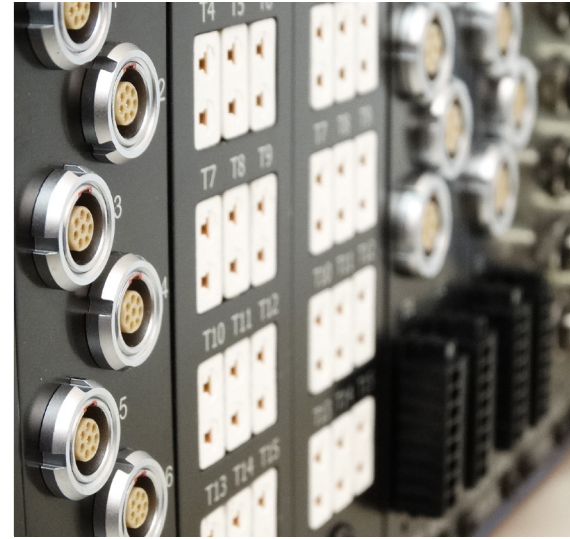
Test: demo2 Cold Effects Sect: 0310 Next Event: 2 Logger Disabled Change Sect/Event

| Chan | Log? | Desc | Val | Unit |
|------|------|--------------------|------|-------|
| 125 | ON | TL Wheel 1- Temp 1 | 23 | °C |
| 145 | ON | TL Wheel 1- Temp 2 | 23 | °C |
| 866 | ON | TL Wheel 1- Batt | 3.6 | volts |
| 874 | ON | TL Wheel 1- Angle | 75 | ° |
| 1012 | ON | Aln_Incoming_Volts | 13.4 | volts |

| Chan | Log? | Desc | Val | Unit |
|------|------|--------------|-----|------|
| 109 | ON | Pedal Force | 1 | N |
| 552 | ON | WhlFr_W_Meas | 0 | rpr |
| 553 | ON | WhlFr_W_Meas | 0 | rpr |
| 554 | ON | WhlRr_W_Meas | 0 | rpr |
| 555 | ON | WhlRr_W_Meas | 0 | rpr |

| Chan | Log? | Desc | Val | Unit |
|------|------|---------------------|------|--------|
| 559 | ON | OdometerMasterValue | 0 | meter |
| 560 | ON | TurboBoostPressure | 0.0 | psi |
| 562 | ON | BSBattVoltage | 14.3 | volts |
| 563 | ON | TmAln_Tq_Actl | 0 | lb-ft |
| 564 | ON | ApelPos_Pc_ActlArb | 0 | % |
| 565 | ON | BrkOnOffSwch_D_Actl | 0 | unites |
| 566 | ON | EngAout_N_Actl | 860 | rpm |
| 567 | ON | Veh_V_ActlEng | 0 | kph |
| 658 | ON | AirArsh_To_Actl | 20 | °C |

Home ChanList NVH Rating TargetBar Camera Back



Options

- 13 modules from which to choose
- ProLINK squeal report application software
- NVH Analysis on the fly
- Select transducers preconfigured in stock, wired and calibrated
- Custom adapter cables for common connector types
- Rugged carrying case/organizer
- Remote on/off push buttons & RF switch for unique mounting options
- Customized software solutions (let LINK adapt our software to your specific requirements)
- Vehicle mounting solutions
- LINK can develop custom test reports for customer procedures

Key Features

- Modules can be added as test needs evolve
- Modules can be shared between systems
- Allows users to buy what they need, while allowing for future growth
- LINK will lease modules to expand capability for short term demand

Custom Add-In: Pass/Fail Run

Waiting to Run: 1 Test Run: 1 Section: 4000 High Speed Pump Test Test: 4000

Reviewing Run: 2
 *no channels overranged
 *Actual Brake Speed 20 km/h, is within 1 km/h from 20 km/h target
 *Avg Pressure (Vol 51) of 20.1 bar, is within range of 10.0-50.0 bar

Driver Comment: NOT ENTERED

Reviewing Run: 4
 *no channels overranged
 *Actual Brake Speed 20.5 km/h, is MORE THAN 2 km/h from 20 km/h target
 *Avg Pressure (Vol 51) of 25.9 bar, is within range of 10.0-50.0 bar

Driver Comment: Driver Error

Test Run: 1 Test Run: 2 Test Run: 3 Test Run: 4 Test Run: 5 Test Run: 6 Test Run: 7 Test Run: 8 Test Run: 9 Test Run: 10

HUD Screen

Logger Disabled Next Stop: 2 Section: 310 Cold Effects

LF: 71 RF: 71 // LR: 70 RR: 72 °F
 (REAR 71 °F - Apply When Linings are 149 to 212 °F)

0.1 kph Apply Speed: 100 kph Required Gear: Neutral

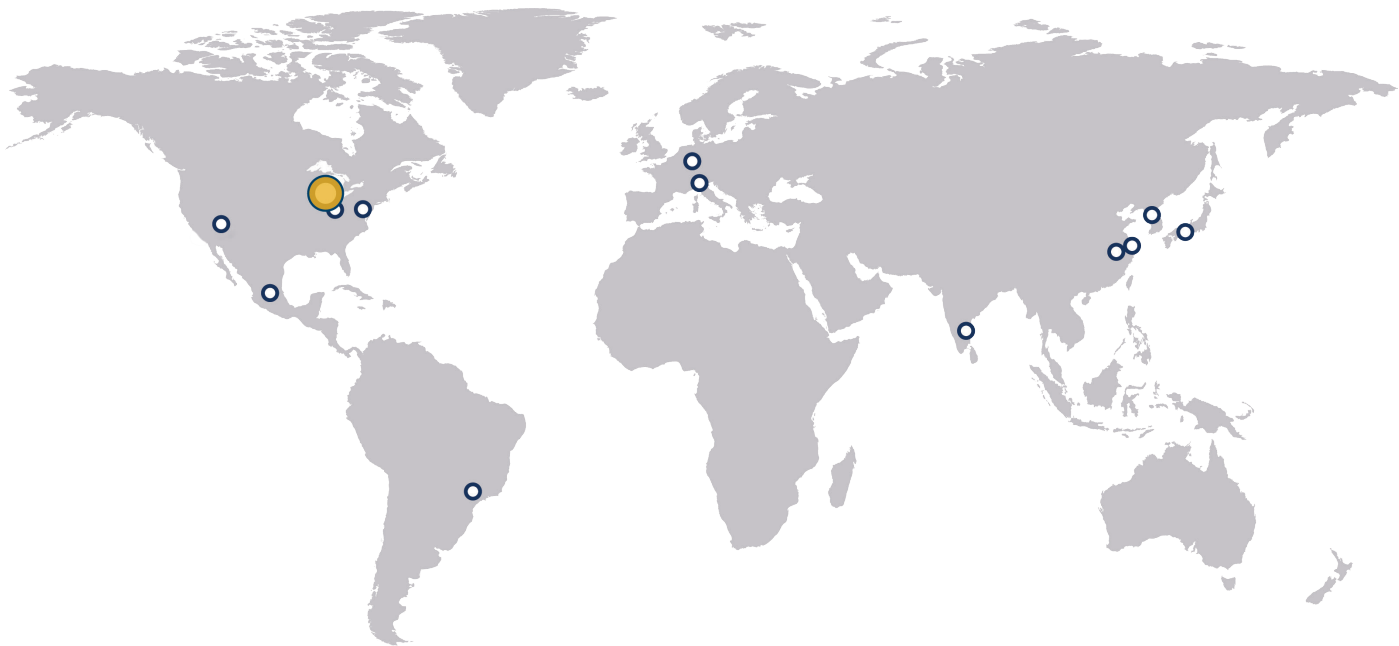
Pedal Force: 509 [N] 525

Green when Target is between: 65.0-600 [N] 525

Model 4000 Specifications

| | |
|-----------------------------|---|
| Intermittent Power Backup | Internal Super Capacitors, 3 seconds |
| Module types | Analog input, Differential analog input, Analog output, Temperature, NVH, Pulse, CAN, Digital input/output, Power module, Power distribution module, POE Ethernet, Video, CPU |
| Operating Temperature Range | -30 °C to +55 °C (-22 °F to +131 °F) |
| Operating Relative Humidity | 5% to 95% Non-Condensing |
| Protection | IP 31 |
| Approvals | CE Mark |
| Input Voltage | 9 Vdc to 27 Vdc |
| Sample Rate | up to 51.2 kHz (depending on channel type) |
| Total # of channels | up to 1000 |

www.linkeng.com



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