

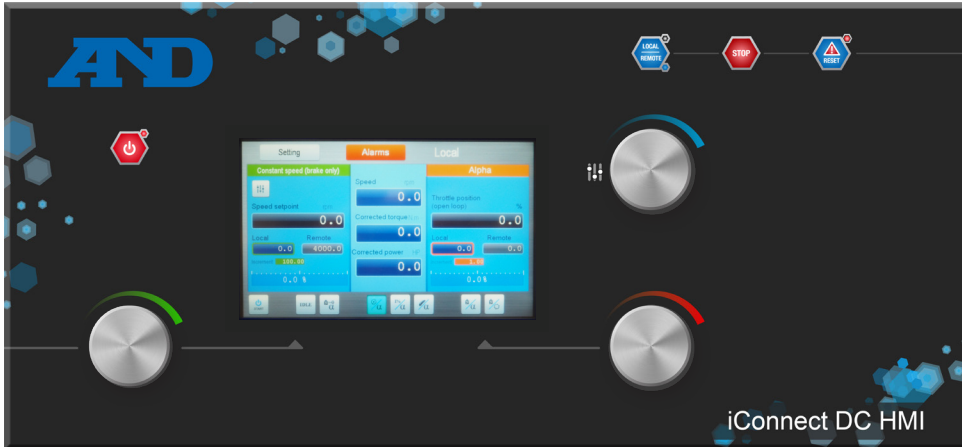


Dual-Loop Dyno Controller

iConnect.ECDC.15

AND
Discover Precision

A&D Technology's Dual-Loop Dyno Controller



+700 INSTALLED GLOBALLY

UPDATE YOUR OLD SYSTEM. REPLACE UNSUPPORTED HARDWARE.

A&D's Dual-Loop Dyno Controller can be a stand alone solution or fully integrated and includes:

Visualization module (HMI):

A large LCD touchscreen to set/display information for measurement & control.

Internal digital conditioning:

Speed & torque are directly conditioned by the control board (load cell & torque meter), which allows for accuracy and resolution to be maximized.

Available operating modes:

Several control modes (N/%, N/T, N/X, RLS, etc.) covering all kinds of applications from engine test bed to tandem dyno.

Available hybrid options:

0-10V Outputs to host DAQ feedback of speed, torque and power.
0-10V Inputs for set-point external definition (speed, torque, load...)
Digital inputs/outputs for alarm signals

Highlights:

- Auto-switching between dynamic and static PIDs
- 19" Rackmount LCD touch panel
- Multiple communication options:
 - Modbus
 - EtherCAT
 - Discrete I/O
- Integrated power AMP
- Programmable I/O via Modbus
- On-board signal conditioning
- Easy throttle dyno control via encoder knobs

GET YOURS AT: AandDtech.com/dyno

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Specifications

Speed Input

Single-Ended or Differential Encoder:

- Level 0: 0.95V Maximum
- Level 1: 1.9V Minimum
- 12V and 5V Excitation

Variable Reluctance Sensor (Mag Pickup):

- Vp-p Minimum: 200mV
- Vp-p Maximum: 120V

Open Collector - NPN or PNP:

- Pull-Down resistance (1k Ω) to 0V for PNP
- Sensors used with 5V or 12V
- Pull-Up to 12V (1k Ω)
- Pull-Up to 5V (1k Ω)
- 12V and 5V Excitation
- Excitation voltage is regulated and isolated
 - Max current for 12V: 350mA
 - Max Current for 5V : 800mA

EC Dyno Output

Power Amp:

- 15A Max - 1,5,10,15A Resolution
- 400 VDC

Input Power:

- 230 VAC
- 50/60 Hz
- 13 Amps

Digital Input

Dry Contacts:

- Water pressure
- Water temp
- External shutdown

Digital Output

Dry Contacts:

- Starter
- Brake Overspeed
- Clutch
- Null Speed
- Motor Overspeed

Communication

- Standard ModBus
- Discrete (Optional)
- EtherCAT (Optional)

Torque Input

Load Cell Inputs:

- 5V Excitation
- 100mA Maximum current
- +/- 20mV full scale input

Americas

A&D Technology, Inc.
Ann Arbor, MI USA
Ph: +1 (734)973 1111
www.AandDTech.com

Europe

A&D Europe, GmbH
Griesheim, Germany
PH: +49 (0)6155-605 250
www.AandDEurope.com

A&D Europe - UK Branch
Abingdon, Oxon, UK
PH: +44 (0)1235-550 420
www.AandDEurope.com

Asia

A&D Technology Trading Co.
Shanghai, China
PH: +86 (0)21-3393 2340
www.AandDTech.com

A&D Company, Ltd-
Tokyo, Japan
PH: +81 (0)3-5391 2753
www.AandD.co.jp

Australia

A&D Australasia Pty Ltd.
Kensington, VIC, Australia
PH: +61 (0)3-9372 1522
www.andaustralasia.com.au

