iDEC

MADE IN THE USA

The Next Generation Turbine Controller - Dual Fuel, Multi Engine, Rugged Design
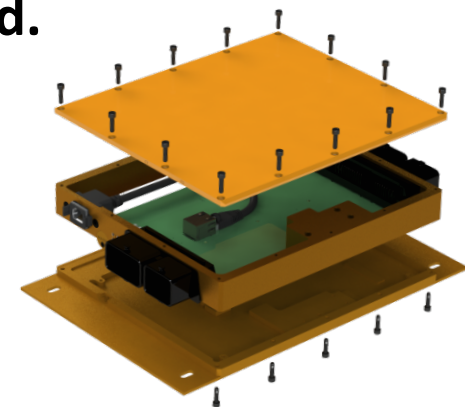
The demands on engine control systems continue to increase. Beyond controlling the engine today, the system must predict its performance tomorrow.

Key Features

- Multi-Engine (TF40, TF50, T53, T55)
- Sealed All-Weather design
- Dual-Fuel (Natural Gas, Diesel)
- Local Operator Panel
- LOP Interfaces (Ethernet, RS422)
- Condition Based Maintenance

The *iDEC* provides an engine controller that can be adapted to any need.

- Hydraulic Fracturing
- Marine Propulsion
- Aviation
- Power Generation

Tucson Embedded Systems, Inc.
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Multiple Engines Dual Fuel Harsh Environment

One iDEC

iDEC
- Xilinx Spartan 6 FPGA
- Arm-9 SAM9G20 400MHz
- 64MB RAM
- 8MB Flash
- 1MB NVRAM
- Voltage Range 18v-32v

iDEC Communication
- Ethernet 10/100
- 3 RS422/RS485

iDEC Craft I/O
- 8 (4-20mA) Inputs
- 4 (4-20mA) Outputs
- 8 Discrete Outputs (100mA)
- 6 Discrete Inputs

iDEC Engine I/O
- 1 CGV
- 6 Discrete Inputs
- 4 Speed Channels (Hardware Overspeed)
- 2 (4-20mA) Outputs
- 2 (4-20mA) Inputs
- 1 Thermistor Input (TF40-T1)
- 1 POT Fuel Feedback
- 2 Pressure Sensors
- 2 Vibration Sensors
- 2 Resistance Sensors
- 2 RTD Sensors
- 2 Thermocouples
- 6 Discrete Outputs (1Amp/iBIT)
- 1 High Power 8-Amp Discrete Out
- 1 High Power Current Out (0-250mA)

iDEC Local Operator Panel (LOP)
- Windows 7
- Ethernet/Serial IO Channels
- Remote Start
- Data Logging

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