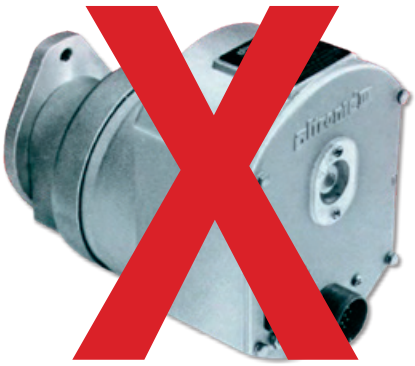
Ignition Systems

Advantages of MOTORTECH Electronic Ignition Systems

Compared to ALTRONIC® Magnetos

In general, the MOTORTECH electronic ignition systems are maintenance free!



They do not have:

- X A mechanical drive
  - *This means less maintenance*
- X A plastic coupling that wears out due to temperature, oil and vibration
- X Moving parts in the ignition controller
- X They are not affected from heat produced by the engine
- X The output voltage to the coils corresponds to the speed of the engine.
  - *At cranking speeds the ignition magneto cannot deliver as much ignition energy*

Electronic Ignition Systems offer the following features:

- ✓ They are powered by batteries or a power supply and make available full ignition energy from cranking to full speed
- ✓ They are less in cost
- ✓ Very accurate as they do not rely on a mechanical drive to trigger
- ✓ They use pickups (1 to 3) to sense the position of the crankshaft and camshaft and the speed.

MOTORTECH GmbH | Hogrevestr. 21-23 | 29223 Celle | Germany | Phone: +49 5141 93 99 0 | Fax: +49 5141 93 99 99 | www.motortech.de
MOTORTECH Americas, LLC | 1400 Dealers Avenue, Suite A | New Orleans | LA 70123 | Phone: +1 504 355 4212 | Fax: +1 504 355 4217 | www.motortechamericas.com

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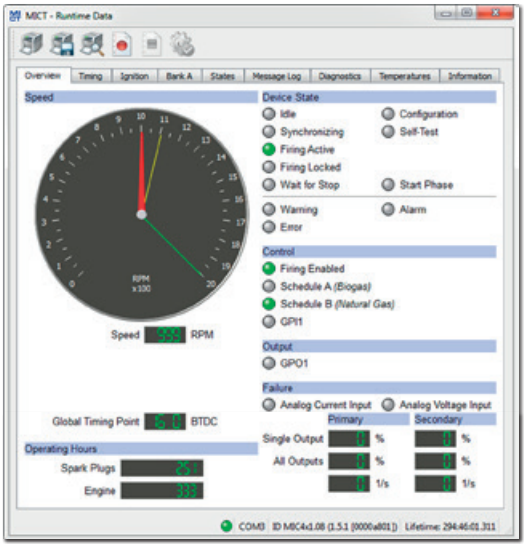
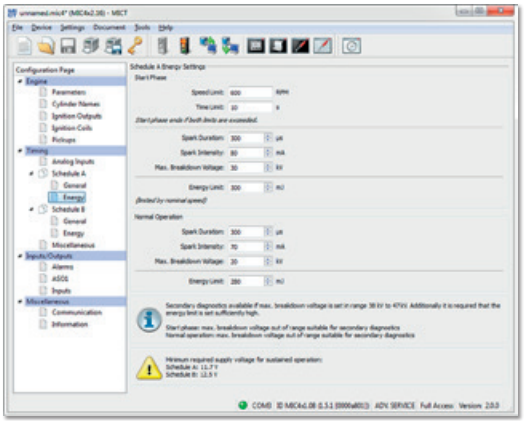
Additional features offered by Microprocessor Controlled Ignition Systems:

- ✓ They can be programmed by the operator
- ✓ They calculate crankshaft/camshaft positions in real time depending on the power of the microcontroller
- ✓ They offer very accurate ignition timing (0.1° crankshaft)
- ✓ They offer features like
  - Programmable timing curves based on
    - Speed
    - Analog inputs
    - Potentiometers
    - Etc.
  - Programmable energy
    - Spark duration
    - Spark intensity
    - Spark energy
  - Programmable safety features
    - Over speed shutdown
    - Alarms
    - Temperature alarms and shutdowns
    - Etc.
  - Can be integrated into SCADA system
  - Designed to work with other components (DetCon detonation controller, etc.)
  - All data can be read via PowerView3 HMI module





MICT – MOTORTECH Integrated Configuration Tool Sample Screens

Conclusion:

✓ **MOTORTECH Electronic Ignition Systems offer the tools that are required to achieve:**

- Higher loads
- Optimized combustion
- Fine tuning of the engine
- Higher efficiency of the engine
- Higher availability of the equipment
- Cost reduction on maintenance
- Less components to stock in inventory

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