XCP[®] Technology

Fully Integrated Test Control

The integrated control, data capture, and reporting of XCP Technology directly supports the accountability and traceability needs of today's testing environments.

Like all CFR Engines Inc. products, XCP Technology is designed, manufactured, and tested to work as part of an integrated and reliable solution for your operation. The engine, parts, accessories, instrumentation, control system, and upgrade options are all provided by CFR to operate together with seamless efficiency.

COMPLIANCE

Built with flexibility to run customized test procedures or conduct tests that are fully compliant to all procedures of the current ASTM Methods:

D2699 – Research Octane Number D2700 – Motor Octane Number D613 – Cetane Number

SPEED

Reduced operator interactions and computer guided compliance to test methods deliver faster results and more instrument productivity.

ACCOUNTABILITY

The singular modern XCP system replaces individual manual controls to provide a more intuitive and easier to use instrument, by a variety of operators, for more dependable tests.

- Intuitive and complete interface with guided test setup, clear visual displays, and simplified operation procedures.
- Real time data recording of all engine parameters and test performance data.
- Clearly defined results are automatically reported incrementally at each critical step of the test and in conclusion at end of test.
- Full engine monitoring with modern instrumentation allows isolation and close monitoring of key systems.
- Detailed and traceable reports are automatically built with complete data tables, performance graphs, and summarized results.



Standard for Octane and Cetane Rating Units

XCP® Technology remains the modern instrumentation of choice for octane and cetane testing. CFR continues to apply advances in design, measurement, and control to its XCP Technology platform. The XCP Digital Control Panel brings advanced functionality, increased automation, enhanced documentation capabilities, and future expansion opportunities to CFR fuel rating units. Designed with the operator in mind, the XCP panel is intuitive, easy-to-use, and accommodates users of all skill levels. XCP Technology is standard equipment on all octane and cetane rating units and can be retrofitted to most existing CFR units.

CONFIGURATIONS

Upgrade kit for existing units:

p/n G-802-51: F1/F2 Octane XCP upgrade kit p/n G-802-53: F1/F2 Octane XCP with OA upgrade kit p/n G-802-57: F5 Cetane XCP upgrade kit

XCP Technology is standard supply on all new unit orders.

FLEXIBILITY

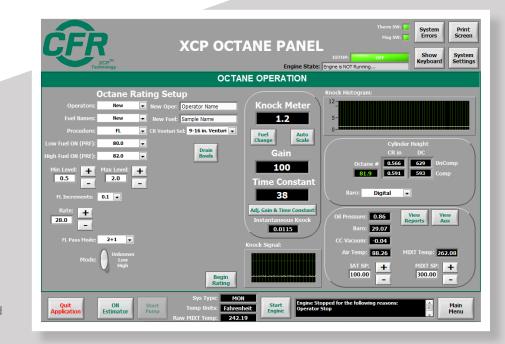
XCP Technology offers the greatest flexibility for Octane testing with easy software switching between RON or MON test Methods. Additionally, XCP comes standard with ability to run all four ASTM procedures... EQ, FL, CR, OA.

SPECIFICATIONS

- Touch screen HMI with industrial PC
- Windows 10 operating system
- LIMS connectivity via Microsoft Excel[®]
- Bolt-on configuration to existing units
- Power supply: 120V, 1 Ph, 50/60Hz
- Desk with wireless keyboard and mouse

| FILE HOME I | NSERT PAGE LAYOUT | FORMULAS | DATA REVIEW | VIEW | | | | |
|----------------------|---|----------------------|-----------------------|----------|---------------------------------------|------------|-------------|---------------|
| ste 💉 Arial B I y | _ | | ± ≣ • \$ • | | Condit | | $\langle -$ | 3 |
| * 1 | X 🗸 fx | | | | | | | -++ |
| A B | с | D | E | F | 9 | | | |
| \sim | DATE | MM-DD-YYYY | METHOD | MON | CYLINDER HEIGHT | * | é é ú | in the second |
| CFR | SAMPLE | 81.5 p1 | PROCEDURE | FL. | UNCOMPENSATED | 0.572403 | 620 | |
| | Ref Fuel ON (PRF) | 80 | OPERATOR | Name | COMPENSATED | 0.598021 | 584 | |
| | High Fuel ON (PRF) | 82 | TIME | 15:46:24 | | in hg. | kpa | |
| | | ACTUAL ON RESULTS | ROUNDED ON RESULTS | | BAROMETER | 29.08 | 98.48 | |
| | SAMPLE ON PASS1 | 81.49 | 81.5 | | | | | |
| | SAMPLE ON PASS2 | 81.47 | 81.5 | | ON DIFF PASS 2-1 | 0.0 | | |
| | SAMPLE ON PASS3 | N/A | N/A | | ON DIFF PASS 3-2 | N/A | | |
| | AVERAGEON PASS 182 AVERAGE ON PASS 283 | 81.48 N/A | 81.5 N/A | | MINIMUM FUEL LEVEL MAXIMUM FUEL | 0.5 | | |
| | | | Pass 1 | | LEVEL | | | |
| TIME | Reference | Fuel | Max KI Level | Max KI | IAT SP | IAT ACTUAL | ON RESULT | |
| 15:46:24 | Unknown | 81.5 p1 | 1.5 | 40.8 | 100 | 100.14 | | |
| 15:51:47 | Ref Fuel ON (PRF) | 80 | 1.1 | 46.4 | 100 | 100.41 | 81.49 | |
| 15:58:41 | High Fuel ON (PRF) | 82 | 1.2 | 38.9 | 100 | 100.34 | | |

All XCP Technology comes standard with on-board data capture and reporting.



XCP Technology provides complete control and flexibility over test parameters and results.

CFR Engines, Inc. N8 W22577 Johnson Drive Pewaukee, WI 53186 USA

E: info@cfrengines.com T: +1 262 501 5998 www.cfrengines.com

Form C440

