

NATURAL GAS CHROMATOGRAPH

imagine the possibilities



*ABB Totalflow proudly introduces the new,
innovative NGC 8200 series*

ABB

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*Performance specifications are based on initial test data, but are subject to change as final testing is completed.

ABB

INNOVATION

ABB Totalflow proudly introduces the most economical, high-precision, on-line gas chromatograph in the industry—the NGC 8200. Using industry-accepted gas chromatography techniques, the NGC 8200 can provide all of the gas-quality and heating-value information your measurement applications require. The data is accessible locally via the front panel digital display, or with a variety of laptop interfaces. It can also be viewed from remote locations using industry standard remote protocols. The lightweight and extraordinarily durable NGC 8200 features four-stream monitoring capability and modular parts that can easily be replaced in the field. Yet the device is economical enough to consider as a replacement for your composite sampler systems.

THE NGC 8200 SERIES

- + Transmitter-like simplicity and usability
- + Multiple flow computers and analyzers in one instrument
- + All of your natural gas analyses in the same product
- + Interactive graphical display in an explosion-proof package
- + Miniaturized conventional analytical components (not silicone wafers)
- + Windows® CE real-time operating system
- + Integral flow computer with addition of multivariable pressure transmitter*

STANDARD COMPUTATIONS

PROVIDE HEATING VALUE,
RELATIVE DENSITY,
WOBBE INDEX,
CONDENSATE

OPTIONAL COMPUTATIONS

PROVIDE SPEED OF SOUND,
VAPOR PRESSURE AND
HYDROCARBON DEWPOINT*
(OTHERS ON REQUEST)

**EXPLOSION PROOF
GRAPHICAL USER INTERFACE**



PRECISION

- + Rugged field unit with laboratory-type precision
 - + +/- 0.125 Btu at reference temperature
 - + +/- 0.25 Btu over operating temperature
- + Best stated precision for on-line chromatograph
- + Stable oven utilizes high-speed digital control
- + Dual calibration stream option
- + Double-precision equations of state, e.g., dew point, speed of sound, vapor pressure*



EASY CONNECTIONS
VERSATILE SERIAL, USB
AND ETHERNET WITH VARIETY
OF MODBUS PROTOCOLS

**FOUR STREAMS;
FLEXIBLE CALIBRATION
STREAM OPTIONS**

EX MMI PORT

MOUNTS ATOP 2" PIPE

SERVICEABILITY
COMPLETE UNIT CONSISTS OF ONLY
THREE REPLACEABLE MODULES

SELF DIAGNOSTICS THAT
GENERATE LOG FILES

REMOTE OPERATION:
OFFSITE MAINTENANCE
BY FACTORY EXPERTS

**THE CORE ANALYTICAL
COMPONENTS ARE ON A SINGLE,
EASY-TO-INSTALL MODULE**

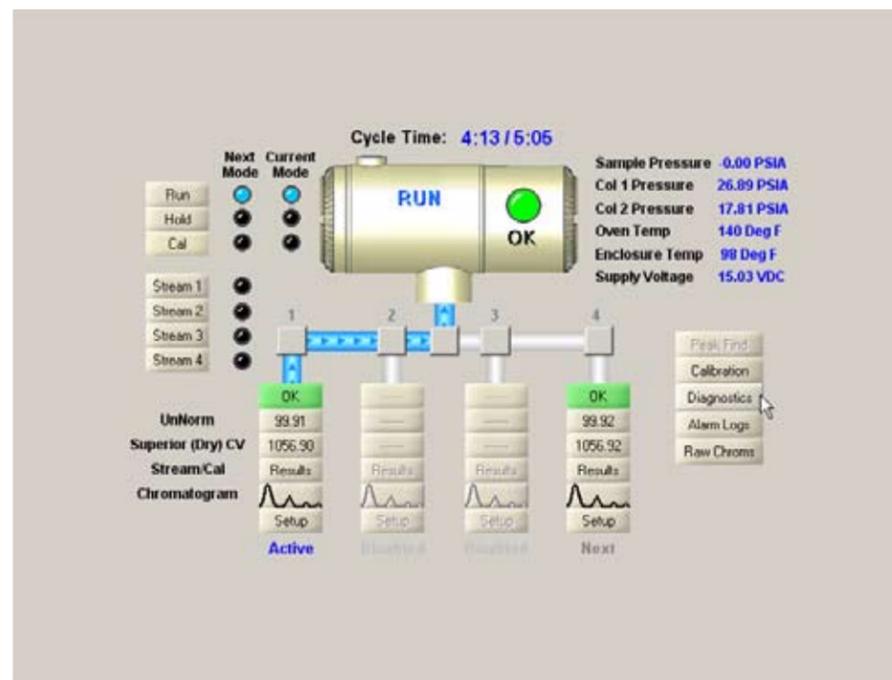


SIMPLICITY

- + Easy to install — compact size permits lighter-weight, small-footprint installation at the sample point
- + Easy to start up — factory-calibrated, ready to install using startup diagnostics, startup wizards
- + Easy to operate — whether using the graphical local display with magnetic navigation keys or using the graphical MMI, as shown below, simple operation is assured from the ground up
- + Graphical LCD magnetic touch display:
 - + View status, results, and chromatograms
 - + Invoke mode changes (cal, hold, run)
 - + User-configurable LCD screen

MAIN ANALYZER INTERFACE SCREEN

- + Provides a simple yet powerful combination of GUI, navigation elements and data



FLEXIBILITY

SOFTWARE FLEXIBILITY

- + NGC software is based on Totalflow's flexible XSeries framework— providing unmatched flexibility
- + Conversion to a total energy device simply requires adding the necessary number of multivariable transmitters and instantiating Totalflow's proven flow computer applications
- + Examples of other software flexibility:
 - + Alarm by exception with cry-out
 - + General purpose data logger
 - + Programmable math / logic functions
 - + Programmable local LCD
 - + Configurable modbus register map
 - + Complex equations of state



- **APPLICATION FLEXIBILITY**
- INDUSTRIAL / COMMERCIAL
- PIPELINE TIE-INS
- ENERGY PLANTS
- LANDFILL
- CITY GATES
- HIGH-END SAMPLERS
- GAS DISTRIBUTION
- INTEGRAL FLOW-ENERGY*
- C6+
- C7+*
- C9+*
- O₂/N₂*
- H₂S%*

NGC 8200

