

# MONITORQ™

## TORQUE MONITORING SYSTEM



# AUTOGARD MONITORQ™ TORQUE MONITORING SYSTEM

Monitorq provides a true measurement of torque, from any location in a drive train. Proven strain-gauge technology is used with a short range telemetry system, to measure and transmit real-time torque data. Monitorq Systems enhance equipment performance by providing a variety of functions from simple overload protection to production or process control and condition monitoring, as used in modern preventative maintenance systems.



Torque Ring

Telemetry Receiver

## Monitorq System Consists Of:

Monitorq (torque ring assembly and telemetry receiver) and one of the following options:

- Autogard's Stand-Alone Panel Mounted Display
- Individual Data Modules - to input customer controllers, computers, etc.

## Monitorq Torque Ring

- Easily applied to new or existing equipment with little modification.
- Measures actual operating torque and transmits the information via telemetry to the receiver.
- Consists of an aluminium or alloy steel ring with a strain-gauge system, power-supply and telemetry transmitter.
- Easily installed into the customer drive train.

## Telemetry Receiver

- The telemetry receiver picks up the telemetry signal containing the torque data, from the torque ring.
- The receiver is positioned approximately 5 mm away from the torque ring.
- The receiver is connected to either the Autogard panel mounted display or an Autogard data module.

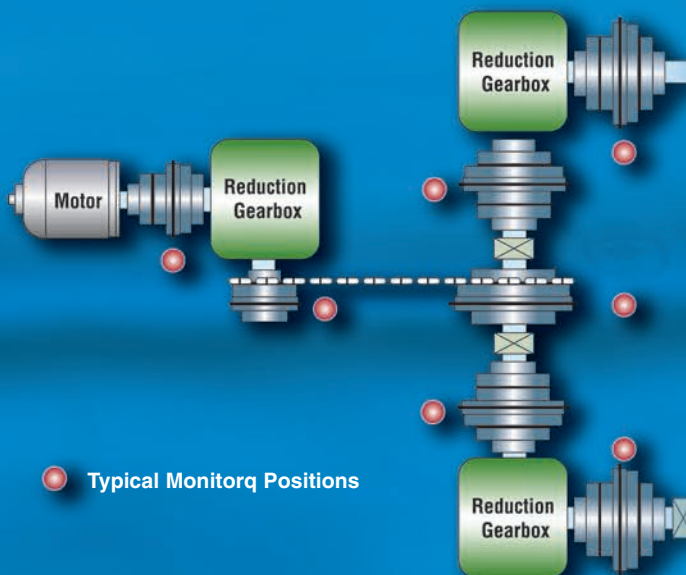
## Control/Display/Output

### Autogard Panel Mounted Display

- A stand alone process controller and display.
- It accepts the torque data from the Monitorq data receiver.
- It translates the data and provides a display of actual torque figures in selected units (lb. in., lb. ft., Nm, etc.).

### Data Modules

- These data translator modules connect to the Monitorq receiver.
- Modules decode torque data into standard outputs of 4-20 mA, 0-10 VDC or provide status of Monitorq operation.
- These modules provide standard signals to customer devices such as process controllers, meters, chart recorders, etc.
- All data modules are standard DIN rail mount and powered by 24 VDC.
- Separate power supply modules are available from Autogard if 24 VDC is not already available.
- This modular approach gives you the lowest cost Monitorq system and is the most economical industrial system available.



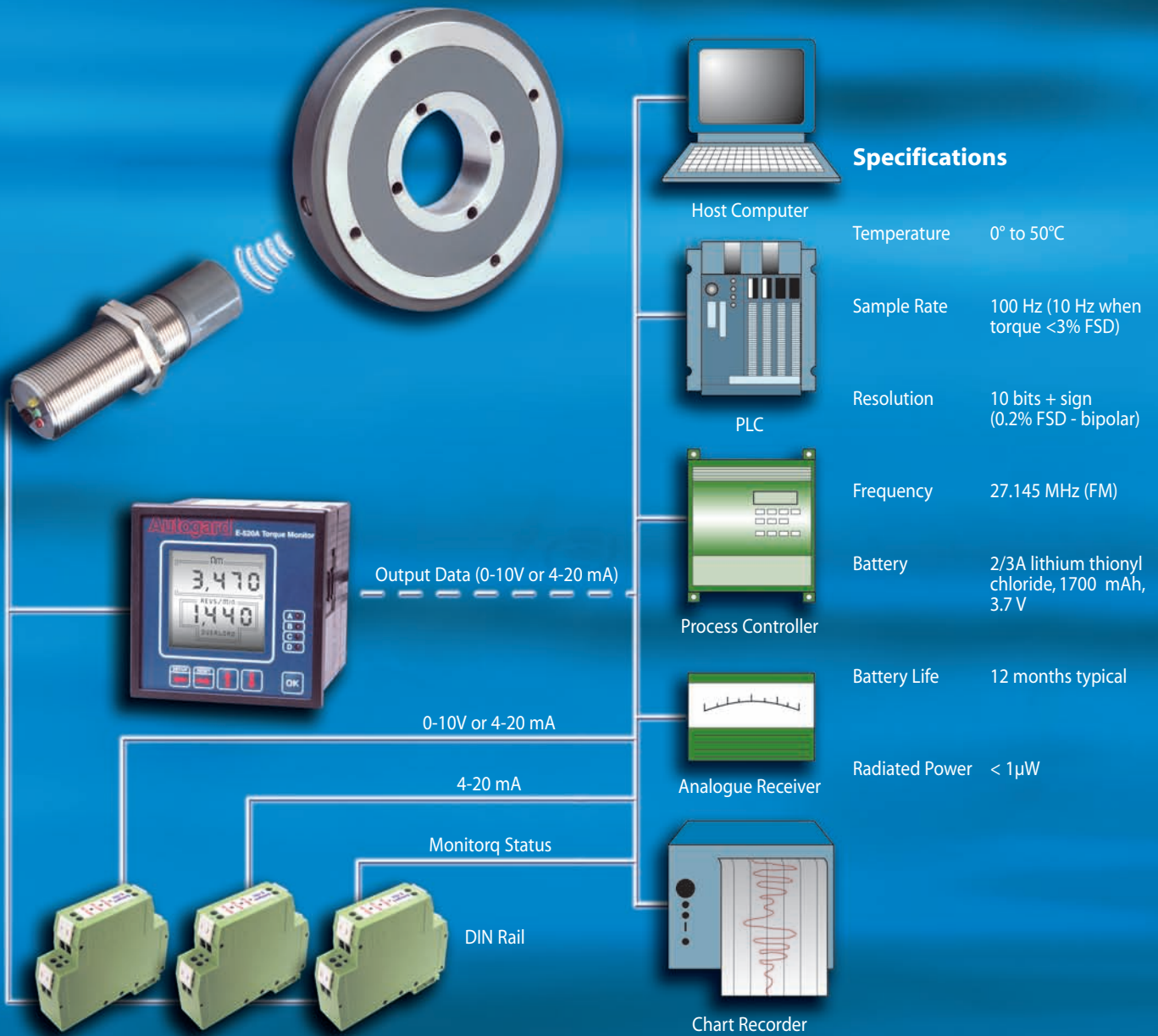
● Typical Monitorq Positions

*The specifications contained within this brochure are correct at the time of going to print. British Autogard are continually reviewing and updating the specifications on all its product range and therefore reserve the right to change any detail.*

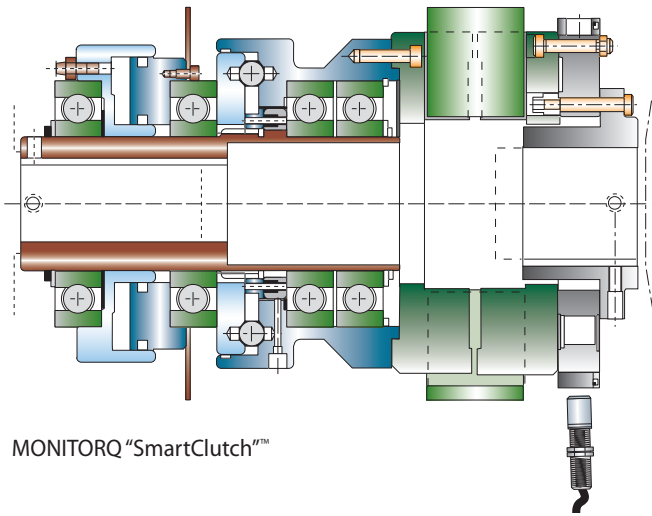
# THE MONITORQ™ ADVANTAGE...



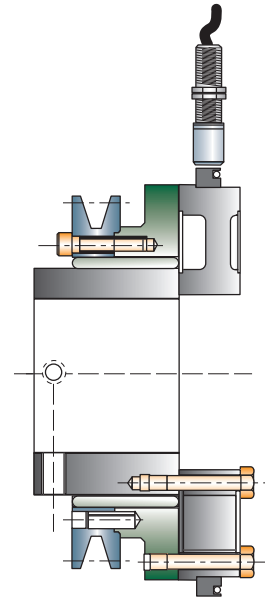
- Condition Monitoring of Rotating Equipment
- Real Time Torque Feedback for Process Equipment
- Torque Control & Protection of Machinery
- Rugged Design Stands Up to the Demands of Industrial Application, Heavy Machinery and Test Stand Equipment



# MONITORQ APPLICATIONS



MONITORQ "SmartClutch"™



MONITORQ - Conveyor Application

# OTHER AUTOGARD PRODUCTS



Autogard Torque Limiters



Autogard Power Monitors



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