

Hx SYSTEM

Thermal Performance Testing and Monitoring



Cloud Enabled | Easy to Install Hardware | Flexible Configuration

The Hx System is a versatile solution of sensors & electronics that offers remote & real-time process monitoring and diagnostics for heat exchangers.

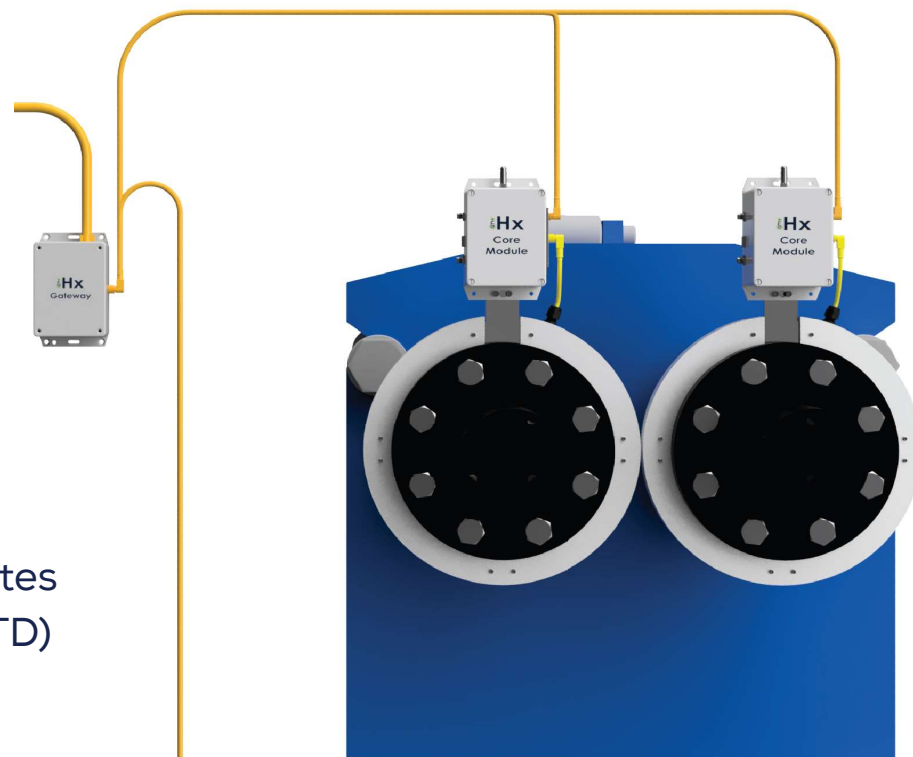
- Real-time data dashboard (Edge or Cloud)
- Flexible connectivity (Wired or Wireless)
- LAN, WiFi, Bluetooth & RS485 ready
- Power using DC line or Battery
- Flexible connectivity with plant sensors such as flowmeters
- May be optioned with an additional flowmeter
- Wafer flange design eliminates process downtime during probe removal

Measurable Parameters

% Change in Relative Performances | Heat Transfer Rates

Thermal Efficiencies | Log Mean Temp. Difference (LMTD)

Fouling Factors (flowrate data required)



Hx SYSTEM

Temperature Plate Assembly



Hx Gateway

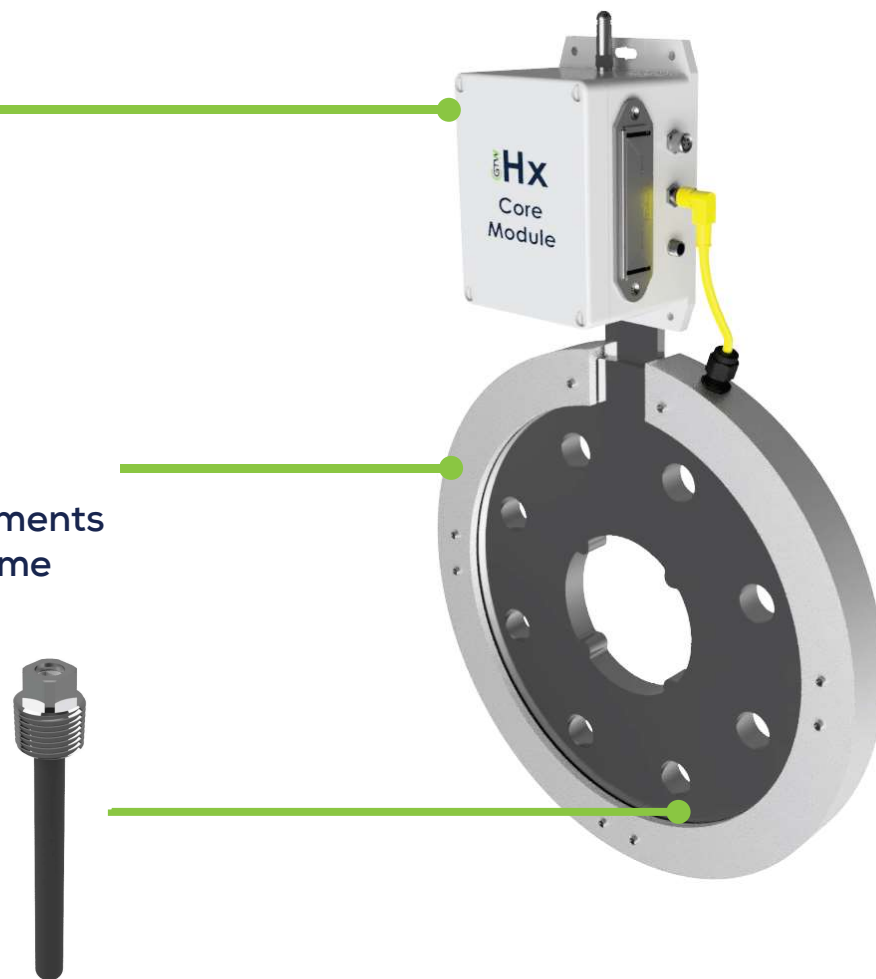
- Wired via RS485 or Wireless via Bluetooth
- Powered via DC line or Battery
- Wireless and Battery powered enable process monitoring/diagnostics in remote locations

Hx 1704 Temp. Plate

- Customizable wafer flange design for effortless install
- Removable covers for easy access to temp. sensors
- Enclosed sensors ensure protection from harsh environments
- Non-intrusive probe housing eliminates process downtime during probe removal

Hx 1707 Temperature Sensors

- High accuracy sensor
- Stainless steel construction

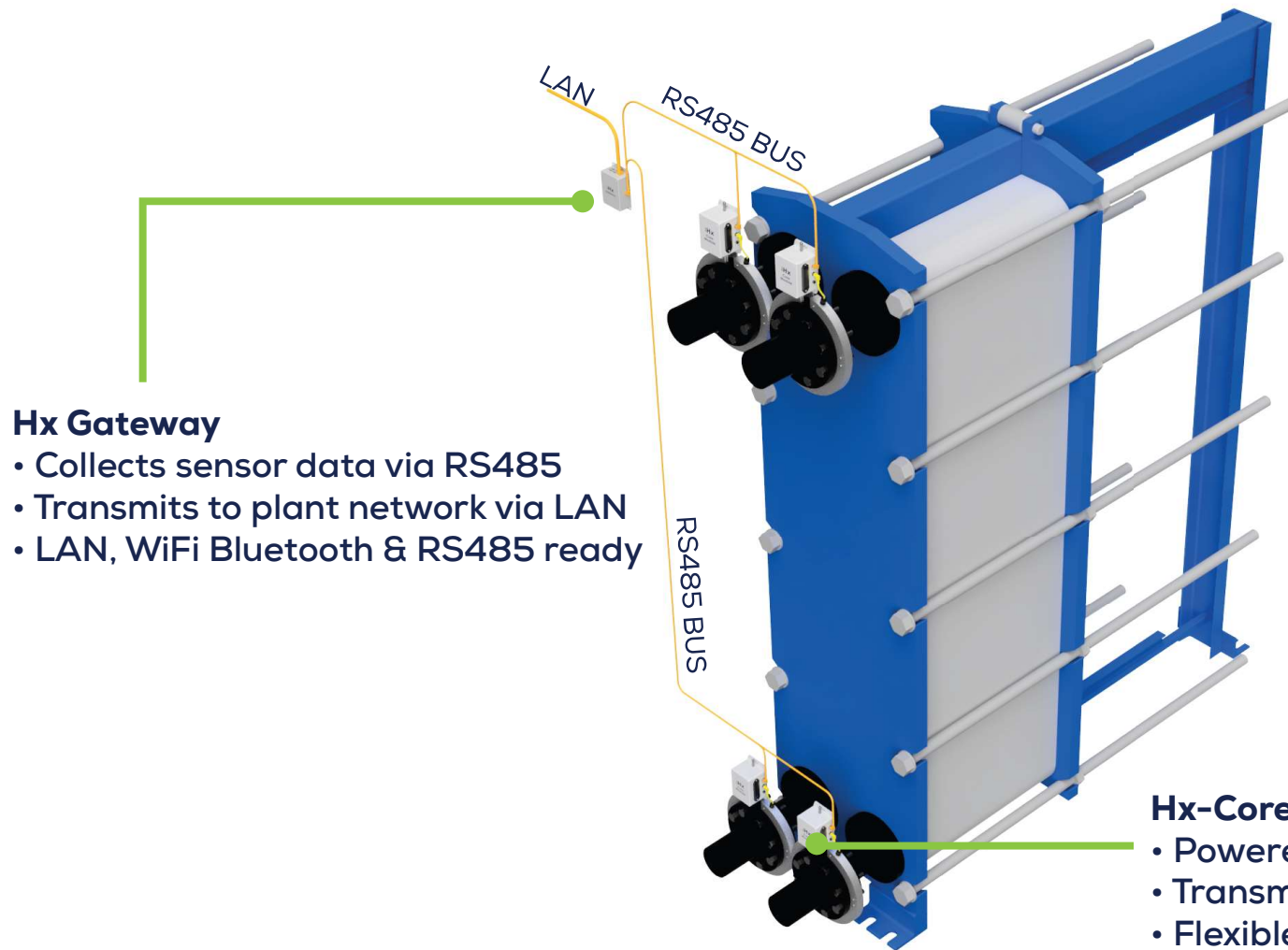


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Typical Wired Configuration



Plate & Frame Heat Exchanger



Hx Gateway

- Collects sensor data via RS485
- Transmits to plant network via LAN
- LAN, WiFi Bluetooth & RS485 ready

Hx-Core Module

- Powered by DC
- Transmits data via RS485
- Flexible connectivity w/ other plant sensors ie. digital/analog flowmeter

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Typical Wireless Configuration

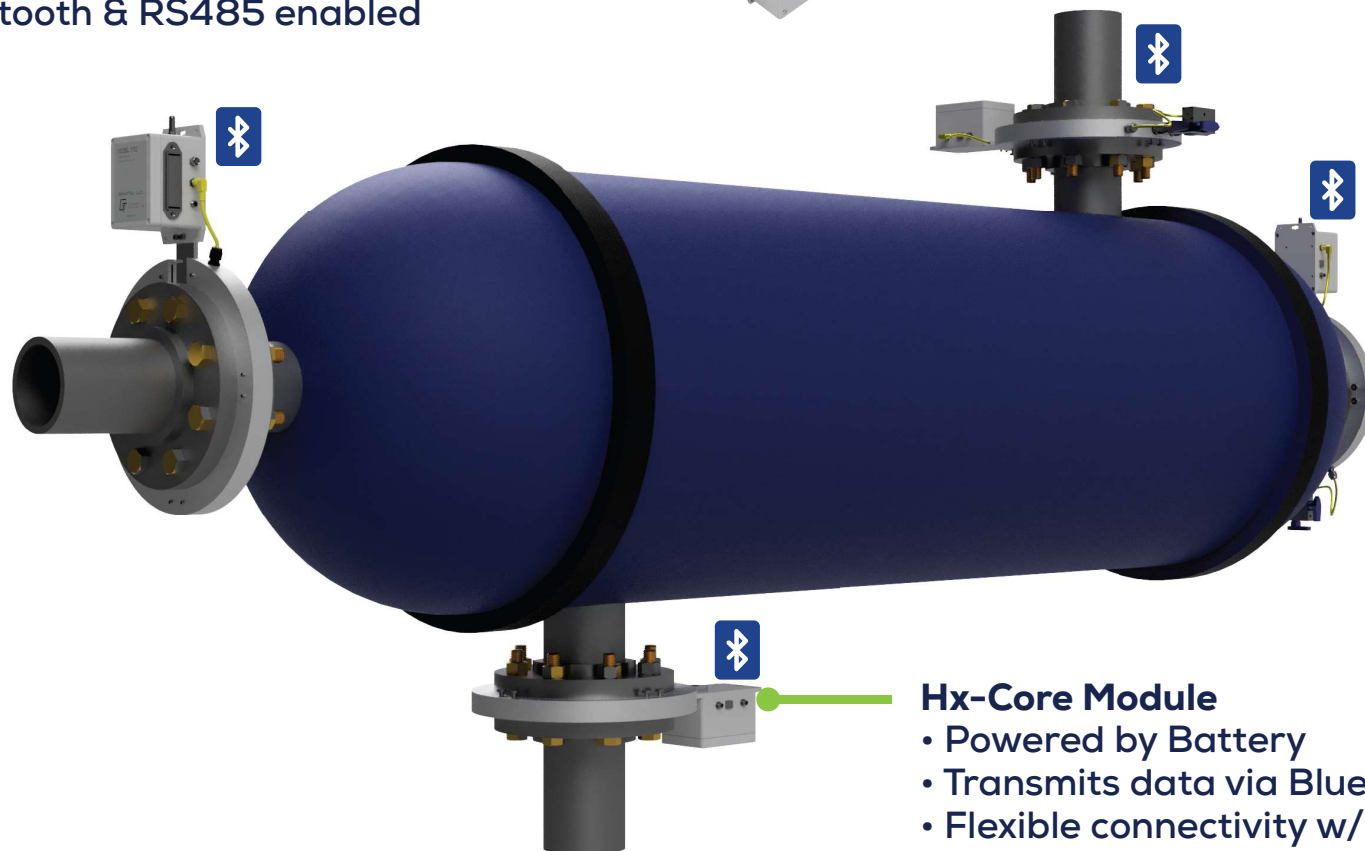


Hx Gateway

- Collects sensor data & transmits to plant networks
- Highly configurable w/ wired or wireless connectivity
- LAN, WiFi, Bluetooth & RS485 enabled



Tube & Shell Heat Exchanger



Hx-Core Module

- Powered by Battery
- Transmits data via Bluetooth
- Flexible connectivity w/ other plant sensors ie. digital/analog flowmeter