Introducing the Remote Asset Controller (RAC) by FTL: The future of asset control is **wireless**.

Smart thermostats can make spaces comfortable, but they aren't equipped to monitor the performance of HVAC units. Even the best thermostats lack visibility into supply and return temperatures, compressor operation, or refrigerant-side performance. When something breaks, the thermostat just keeps calling for more. Building Automation Systems do monitor and control HVAC and refrigeration equipment, but at a steep price. Installing a single JACE controller can run into the tens of thousands of dollars and require a credentialed BAS engineer to implement and diagnose any problems. Facilities managers and service technicians may not even have direct access.

FTL fills that gap with its RAC — installed in-line between an existing thermostat and HVAC equipment, such as a packaged rooftop unit (RTU). The RAC includes a full sensor suite, with cloud monitoring and override control, and can be installed by any HVAC service technician in under an hour, including provisioning. Device data is visible on any device by both facility managers and service providers. The "RAC-C" includes cellular for a direct connection to the cloud.

The RAC will be capable of refrigeration asset monitoring and control in October 2026.

WHERE THE RAC FITS

	Smart Thermostat	Traditional BAS / JACE	FTL RAC
Space comfort control	Yes	Yes	Yes
Asset monitoring	No	Yes	Yes
Cloud control & override	Capabilities vary	Yes — complex, proprietary platform	Yes — simple dashboard, any browser
Installation	Any tech, 15 min	Credentialed BAS engineer, days to weeks	Any HVAC tech, under an hour
Connectivity	Wi-Fi / local only	Ethernet, proprietary network, BACnet/IP etc.	Cellular built-in (RAC-C) RAC connects to Terminal via LoRa

I/O SPECIFICATIONS

Port	Type	Qty	Function
Terminal Block (Thermostat)	24VAC control signals	8×	R, G, Y1, Y2, O, W1, W2(reversing valve), C common — thermostat pass-through and cloud override relay
3.5 mm TRS*	1-Wire temperature sensor	4×	Supply, return, and auxiliary temperature monitoring. Supports refrigerant high/low side temperature and pressure monitoring
3.5 mm TRS*	Current clamp input	4×	Compressor and fan motor amp monitoring — equipment load tracking
Terminal Block (HVAC asset)	Analog voltage input	8×	Analog input pins for pressure transducers and voltage-output sensors
Onboard	Acoustic microphone	1×	Sound anomaly detection for mechanical fault identification
Onboard	Temperature sensor	1×	Board ambient temperature monitoring

**Aux (stereo) mini jack connector*

CONNECTIVITY

Interface	Type	Purpose
Power	24VAC from RTU transformer	Powered directly by the existing RTU — no separate supply required
Cellular	Built-in (RAC-C)	Primary cloud uplink — live from the moment of installation
Satellite	Optional (Starlink / Satellite)	For remote or off-grid locations where cellular coverage is unavailable
LoRa	Long-range wireless	Collects data from Senstick temperature sensors and relays to cloud via cellular
Cloud	FTL Cloud	Remote monitoring, control, and alerting