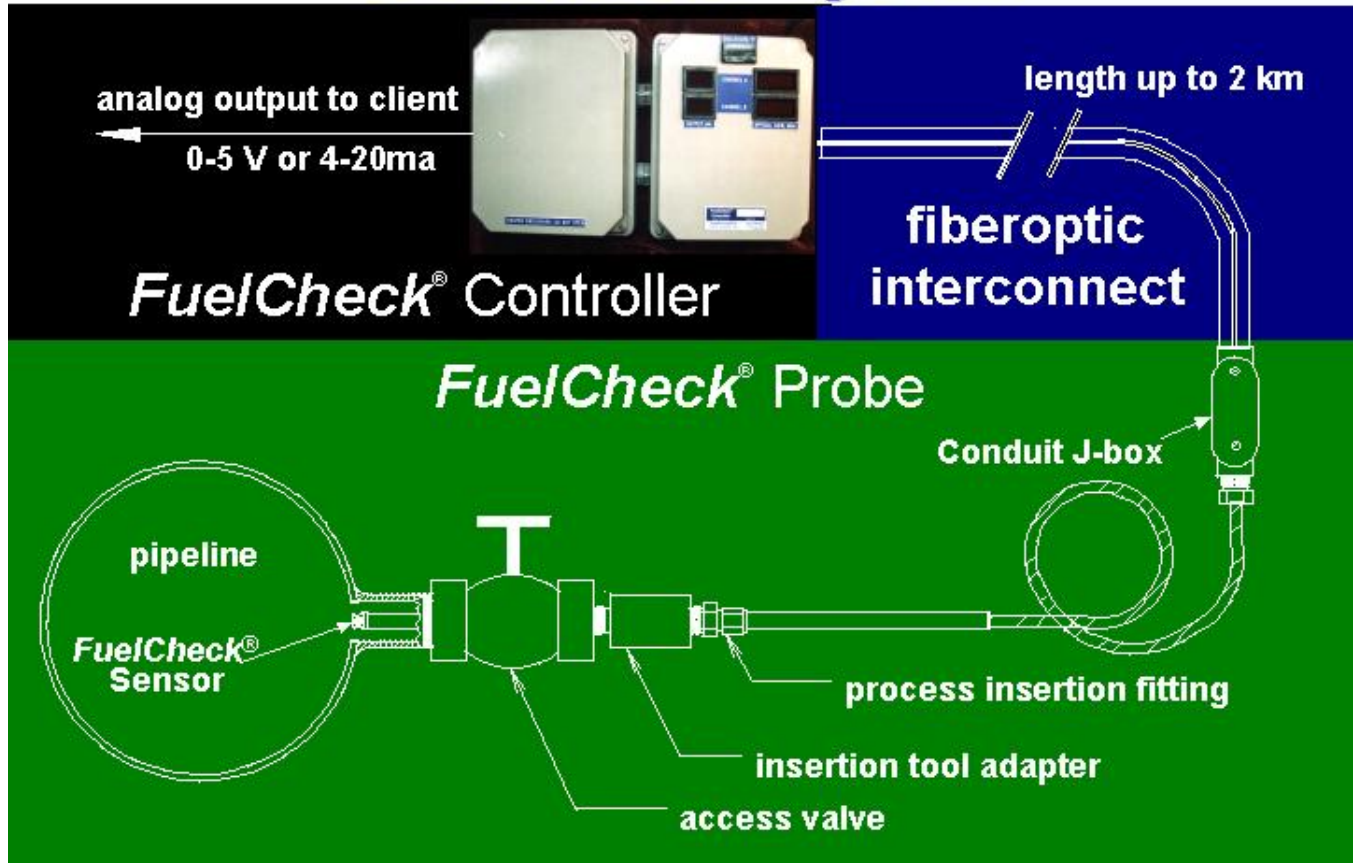
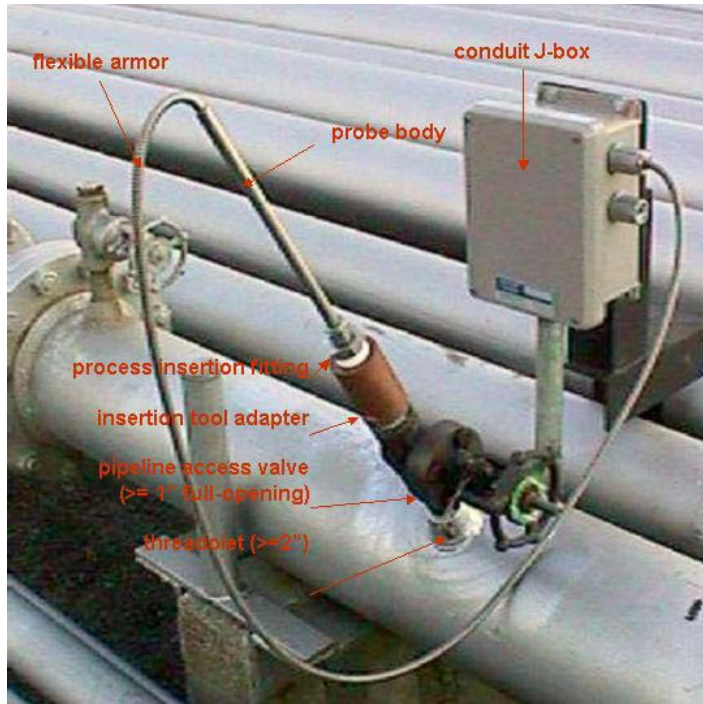


FuelCheck® System



- Provides instantaneous and highly sensitive interface detection in shared product pipelines
- Very low cost of ownership because no power or wiring is needed at Probe location on pipeline
- Probe is COMPLETELY fiberoptic and thus inherently safe
- When Controller is located indoors, system is completely immune to lightning
- Probe can be located up to 2 km away from Controller using inexpensive "off-the-shelf" fiberoptic cable
- Extremely cost-effective alternative to conduit and hard-wiring
- Uses *light refraction* rather than density to detect product interfaces
- Refractive index measurement is extremely sensitive to small differences in composition; thus, much more difficult batch cuts are possible than with density
- When properly applied using tandem sensor technique, vast reductions in transmix volumes are typical
- Probe installs flush with pipeline so pigging can be accomplished without retracting Probe



FuelCheck® Probe Installed in Pipeline

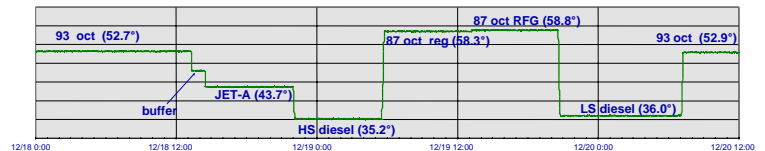
- Threaded or flanged probe fittings ready to attach to full-opening access valves
- 1,440 psi (100 bar) standard operating pressure
- Hydraulically assisted insertion probes available allowing insertion and retraction up to 1,440 psi (100 bar)
- Standard 1, 2, and 3 probe Controller models available
- Analog output standard (4-20 mA, 0-10 VDC, etc.): optional serial and Ethernet (TCP/IP) protocols also available
- Local LED displays indicate optical gain and final analog output for each Probe
- Requires 24 VDC @ 2A service: optional AC adapter available

FuelCheck® Controller

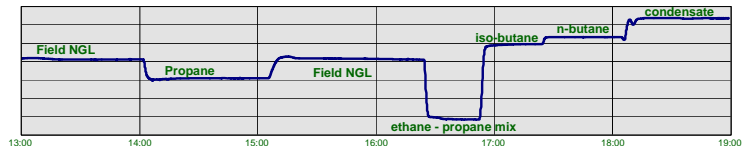


FuelCheck® Response

Refined Products



LNG Mixtures



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