

**3010E620 Series Electric Fuel Metering Unit**



The Young & Franklin 3010E620 Fuel Metering Unit (FMU) is electro-mechanically actuated (EMA) and provides unchoked flow for use on aeroderivative turbines. This FMU is certified for use in hazardous locations around the world.

### 3010E620 Series EMA FMU Technical Specifications

Line Size:	2" Valve
Flow Profile	Non-Linear
Effective Area	.93 in <sup>2</sup> (600 mm <sup>2</sup> )
Estimated Dry Weight	90 lbs. (41 kg)
Slew Time	≤200 ms
Trip Time	≤250 ms
Maximum Operating Pressure	1440 psig (99 barg) @ -20° to 100°F (-29° to 38°C) 1150 psig (79 barg) up to 400°F (204°C)
Burst Pressure	5x maximum operating pressure
Valve Flange Size	ASME B16.5, Class 600 Flange
Fluid Temperature Range	0°F to 400°F (-18°C to 204°C)
Ambient Temperature Range	-4°F to 212°F (-20°C to 100°C)
Mean Time Between Service	96,000 Hours
Mean Time Between Failures (MTBF)	290,000 hours
Valve Materials	Stainless Steel (NACE MRO175 Compliant)
Bandwidth/Frequency Response	Customizable up to 23 Hz with 3dB attenuation
Independent Feedback	2 LVDTs (optional)
Motor Coil	Class F insulation (311°F, 155°C)
LVDT Wiring	6.56 ft (2 m) Flying Lead or MIL Connector
Motor Wiring	3 ft (.91 m) Flying Lead or 32.8 ft (10 m) Jacketed Cable
Visual Position Indicator	Yes
Ingress Protection	IP65
Seat Leakage	Class IV per ANSI FCI 70-2
Stem Leakage	Zero leakage, as shipped
Failure Mode	Spring to drive valve to safe position (Fail Close)
Environmental	MIL-STD-810 - Shock and Vibration
Command	4-20 mA Position, -8 to +8 mA Triple Redundant Velocity
Certifications	Standard Assembly: Class 1 Div 2, Group B, C & D, T3 Ex db IIB+H2 T3 Gb With Optional LVDTs: Class 1 Div 2, Group B, C & D, T3 Ex db ib IIB+H2 T3 Gb