



Łukasiewicz
Institute
of Aviation



The PPM-1 type
Fuel Quantity Measurement
and Indicating System
is a capacitance summing fuel meter

PPM-1 FUEL METER

CHARACTERISTICS

The PPM-1 Fuel Quantity Measurement and Indicating System is produced and maintained under EASA Part 21G and Part 145 approvals in Łukasiewicz – Institute of Aviation. The PPM-1 system is used on board the PZL M28 Skytruck and Bryza aircraft. Structurally composed of independent assemblies functionally related to each other. It provides measurement of the amount of fuel mass in each tank and the total fuel mass in lbs. or kg.

PPM-1 Fuel Gauge works as a complete system with:

- ELECTRONIC UNIT type BEPPM-1,
- ANALOG-DIGITAL INDICATOR type WPAC-1,
- DIGITAL INDICATORS WPC-1 and WPD-1,
- FUEL METER TRANSMITTERS: NP1, NP2, NP4 ÷ NP10,
- FUEL METER TRANSMITTER WITH COMPENSATOR NP3,
- FUEL LOW-LEVEL SENSORS SRP-1.



TECHNICAL DATA

Parameter	Value
Fuel mass measurement	Lbs or kg
Max Total Weight	12 kg
Power supply	28 V DC from aircraft electric system
Maximum power consumption	2 A
Temperature	-20°C to +55°C (Analog-Digital and Digital Indicators) -45°C to +70°C (Electronic Unit, Fuel Gauge Transmitters, Low-Level Fuel Sensors)

KEY FEATURES

- Continuous measurement and indication of the amount of fuel in each tank and total amount of the aircraft.
- Possibility to assemble the system depending on the number of tanks.
- Signaling a critical low-level of fuel.
- PPM-1 can be easily tested and calibrated using TPPM-1 Fuel Gauging System Tester developed in Łukasiewicz – Institute of Aviation.



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al. Krakowska 110/114, 02-256 Warsaw, Poland
e-mail: info@ilot.lukasiewicz.gov.pl / www.ilot.lukasiewicz.gov.pl