

HEAT FLUX METER FOR DETERMINATION OF LOSSES IN BUILDINGS AND HEATING



- The device is intended for contact measuring the density of heat fluxes from constructional elements of buildings and heating mains.
- Heat flux meter is composed of primary heat flux converters created on the basis of high-performance thermoelectric semiconductor materials and eight-channel electronic meter-recorder intended for data acquisition, recording measured results into embedded memory and indicating heat flux and temperature values. The recorded values can be transferred to computer for further processing, storage and printout. Small dimensions and weight (not more than 1.5 kg) enable the use of heat flux meter under field conditions.
- In its performance characteristics the device in given temperature range is not inferior to the best foreign samples of heat flux meters and has no analogs in Ukraine.
- This development is of practical significance for civil engineering, municipal engineering, industry and power engineering.



Basic characteristics of heat flux meter

Range of heat fluxes, W/m ²	10 ⁻² - 10 ³
Sensitivity, V/W	1 - 5
Time constant, s	1 - 7
Operating temperature range, °C	-30 - +130
Overall dimensions of primary converters, mm:	
Length	20
Width	20
Thickness	1 – 5
Weight, kg	1.5

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