

ULTRASOUND THERMAL ENERGY METERS

MSD

C ← BUS



APPLICATION

Meters and allocates separately, with automating switching, the quantity of heat and refrigeration energy in relation to the water flow in the plant, measured by the ultrasound volumetric meter, and to the temperature difference between flow and return, measured by the two detectors supplied.

C-Bus compatible.

Essential accessories: 1 pair pockets.

FEATURES

• Comprises:

– 1 **INFOCAL 5** electronic integrator:

- Power supply 230 V~; Consumption: 0.5 VA ;
- Case 150 x 99 x 49; Protection: IP 54; DIN rail mounting on wall or on insulated pipe.
- Flow and return detectors included: Pt 500 Ω; Measurement range: 0...160 °C; Differential: 0...160 °C.
- C-Bus communication (ISD 818 card); PTB 22.55-00.04 certification.

– 1 ultrasound volumetric meter:

SHARKY 471 : PN 16; Protection: IP 54; Approved EN 1432 in Class 2; Pulse transmitter included.

Installation in any position max. 90 °C.

SONO 2500 CT : PN 25; Protection: IP 65; Approved EN 1434-1 in Class C; Burst pulse transmitter included.

Installation: horizontal max. 150 °C, vertical max. 120 °C.

SONO 3300 CT : PN 25; Protection: IP 65; Approved EN 1434-1 in Class C; Pulse transmitter included.

Installation: horizontal max. 150 °C, vertical max. 120 °C.

Code	DN mm	Qn m ³ /h	Ultrasound volumetric meter	Length ⁽¹⁾ mm.	En MW	Qmax m ³ /h	Qi m ³ /h	Qmin m ³ /h	Data sheet	
Threaded										
MSD G15-0,6	15	0.6	SHARKY 471	110	0.024	1.2	0.036	0.006	H 710	
MSD G15-1,5	15	1.5	SHARKY 471	110	0.06	3	0.09	0.015	H 710	
MSD G20-2,5	20	2.5	SHARKY 471	130	0.10	5	0.15	0.025	H 710	
MSD G25-3,5	25	3.5	SONO 2500 CT	260	0.14	7	0.035	0.007	H 710	
MSD G25-6	25	6	SONO 2500 CT	260	0.24	9	0.06	0.012	H 710	
MSD G40-10	40	10	SONO 2500 CT	300	0.40	20	0.1	0.020	H 710	
Flanged										
MSD F25-3,5	25	3.5	SONO 2500 CT	260	0.14	7	0.035	0.007	H 710	
MSD F32-6	32	6	SONO 2500 CT	260	0.24	9	0.06	0.012	H 710	
MSD F40-10	40	10	SONO 2500 CT	300	0.40	20	0.1	0.020	H 710	
MSD F50-15	50	15	SONO 2500 CT	270	0.60	30	0.15	0.030	H 710	
MSD F65-25	65	25	SONO 2500 CT	300	1	50	0.25	0.050	H 710	
MSD F80-40	80	40	SONO 2500 CT	300	1.6	80	0.40	0.080	H 710	
Flanged										
MSD F50-36	50	36	SONO 3300 CT	475	1.44	45	0.7	0.31	H 710	
MSD F65-60	65	60	SONO 3300 CT	475	2.40	72	0.9	0.44	H 710	
MSD F80-100	80	100	SONO 3300 CT	400	4	120	1.4	0.7	H 710	
MSD F100-180	100	180	SONO 3300 CT	400	7.2	216	2.5	1.2	H 710	
MSD F125-250	125	250	SONO 3300 CT	400	10	300	3.9	1.9	H 710	
MSD F150-360	150	360	SONO 3300 CT	400	14.4	432	5.6	2.7	H 710	
MSD F200-600	200	600	SONO 3300 CT	490	24	720	10	4.8	H 710	
MSD F250-1000	250	1,000	SONO 3300 CT	575	40	1,200	16	7.6	H 710	

(1) – Length without unions or flange to flange.

En – Nominal energy with Qn and Δt = 40 °C

Qmax – Maximum measurable flow.

Qmin – Minimum measurable flow.

Qn – Nominal flow.

Qi – Minimum flow with error less than ± 3%.