



PRICE LIST 2022

Price list is valid from 1st January 2022. All previous price lists are not valid from this date. Prices are in EUR, without VAT and shipment. Manufacturer reserves right to change prices when costs or exchange rate change.

THERMOMETERS AND MANOMETERS.....	2
Technical thermometers.....	2
Thermometers for household.....	3
Capillary thermometers and manometers.....	3
Oven thermometers.....	3
Accessories for thermometers and manometers.....	4
THERMOSTATS AND THERMAL CUTOUTS.....	4
Capillary thermostats and thermal cutouts.....	4
Stem thermostats.....	5
Bimetallic thermostats and thermal cutouts.....	5
Accessories for thermostats and thermal cutouts.....	6
HEAT COST ALLOCATORS, WATER METERS.....	7
Heat cost allocators.....	7
Water meters and heat meters.....	7
Accessories for heat cost allocators and water meters.....	7
Other products.....	8
SERVICES.....	8
Calibration of bimetallic thermometers.....	8
Other services.....	9

APATOR METRA s.r.o.
Havlíčková 919/24
787 01 Šumperk
Czech Republic

tel.: +420 583 718 111


e-mail: prodej@metra-su.cz
www: <http://www.metra-su.cz>

THERMOMETERS AND MANOMETERS

(Calibration prices are listed at the end of the Price list)

Technical thermometers

Stainless steel thermometers

				EUR
Straight thermometer TR 60	up to 60 mm	stem – stainless steel		9,00
	100 mm	stem – stainless steel		9,40
	160 mm	stem – stainless steel		10,55
	250 mm	stem – stainless steel		11,55
	400 mm	stem – stainless steel		12,90
Straight thermometer TR 100	up to 60 mm	stem – stainless steel		10,35
	100 mm	stem – stainless steel		10,75
	160 mm	stem – stainless steel		11,15
	250 mm	stem – stainless steel		12,90
	400 mm	stem – stainless steel		16,65
	630 mm	stem – stainless steel		23,90
	1 000 mm	stem – stainless steel		31,70
1 500 mm	stem – stainless steel		41,10	
Straight thermometer TR 120	60 mm	stem – stainless steel		14,50
	100 mm	stem – stainless steel		14,85
	160 mm	stem – stainless steel		15,25
	250 mm	stem – stainless steel		16,45
	400 mm	stem – stainless steel		21,55
	630 mm	stem – stainless steel		27,00
	1 000 mm	stem – stainless steel		34,85
	1 500 mm	stem – stainless steel		48,95
Angle thermometer TU 60	100 mm	stem – stainless steel		16,85
	160 mm	stem – stainless steel		17,40
	250 mm	stem – stainless steel		18,60
	400 mm	stem – stainless steel		19,75
Angle thermometer TU 100	100 mm	stem – stainless steel		19,20
	160 mm	stem – stainless steel		19,75
	250 mm	stem – stainless steel		20,55
	400 mm	stem – stainless steel		23,10
	630 mm	stem – stainless steel		34,45
	1 000 mm	stem – stainless steel		41,90
Angle thermometer TU 120	100 mm	stem – stainless steel		21,15
	160 mm	stem – stainless steel		21,90
	250 mm	stem – stainless steel		22,70
	400 mm	stem – stainless steel		26,25
	630 mm	stem – stainless steel		37,20
	1 000 mm	stem – stainless steel		45,80
	1 500 mm	stem – stainless steel		57,20
Plastic head thermometers				
Straight thermometer DTR	up to 160 mm	stem – stainless steel		12,90
	250 mm	stem – stainless steel		14,10
	400 mm	stem – stainless steel		18,20
	630 mm	stem – painted steel		30,10
	1 000 mm	stem – painted steel		32,90
	1 500 mm	stem – painted steel		45,05

EUR

Angle thermometer DTU	100 mm	stem – stainless steel	18,00
	160 mm	stem – stainless steel	18,40
	250 mm	stem – stainless steel	18,80
	400 mm	stem – stainless steel	22,70
	630 mm	stem – painted steel	34,45
	1 000 mm	stem – painted steel	40,70
	1 500 mm	stem – painted steel	51,50

Other technical thermometers

Contact thermometer DKR 250	to 160 mm		51,20
	250 mm		52,30
	400 mm		58,10
	630 mm		73,85

Thermometer TT60			6,25
Surface thermometer DTTR			11,15
Heat-conductive ring DTTR			0,80
Probing thermometer TRV			44,05

Thermometers for household



Wall thermometer VNT (plastic board with digital print)			22,30
Wall thermometer VNT-B (slate board with laser print)			26,65
Wall thermometer VNT-D (wooden composite board with laser print)			22,30
Stove capillary thermometer TKS 60			23,30
Flue gas thermometer TRS 60			17,00
Flue gas thermometer TRS 100			19,20
Wall thermometer DTN			19,00
Wall thermometer T 120 N			17,20
Sauna thermometer T 120 S			18,00
Thermometer for fruit preservation DTD 2			9,75
Thermometer for smokehouse, BBQ and grill (TR100, 0-260°C, stem length 250 mm)			19,20
Thermometer for smokehouse, BBQ and grill (TR100, 0-260°C, stem length 400 mm)			19,95
Thermometer for smokehouse, BBQ and grill (TR60, 0-260°C, stem length 100 mm)			15,45
Table thermometer DTST			10,15
Window thermometer DTOK			9,00

Capillary thermometers and manometers



Capillary thermometer TCS 48	capillary length 1 450 mm	6,25
Capillary thermometer TCS 60	capillary length 1 450 mm	6,25
Manometer MCS 48	capillary length 920 mm	16,40
Manotherm MTCC 60	capillary length 1 450 mm (therm. part) 920 mm (man. part)	19,20

Oven thermometers



Oven thermometer DTSP		16,85
Oven thermometer DIT 40.2		4,05
Oven thermometer DIT 41.1		5,65
Oven thermometer DIT 41.2		11,95

Accessories for thermometers and manometers



			EUR
Thermometer well	50 mm	painted (thread M20x1,5 or G1/2")	4,60
		chromed (thread M20x1,5 or G1/2")	5,35
	65 mm	brass/copper, thread G1/2"	5,35
		stainless steel PN40 (thread M20x1,5 or G1/2")	9,90
		painted (thread M20x1,5 or G1/2")	4,70
	105 mm	chromed (thread M20x1,5 or G1/2")	5,45
		brass/copper, thread G1/2"	5,45
		stainless steel PN40 (thread M20x1,5 or G1/2")	12,30
	165 mm	painted (thread M20x1,5 or G1/2")	4,80
		chromed (thread M20x1,5 or G1/2")	5,50
		brass/copper, thread G1/2"	5,50
	255 mm	stainless steel PN40 (thread M20x1,5 or G1/2")	13,00
		painted (thread M20x1,5 or G1/2")	4,90
		chromed (thread M20x1,5 or G1/2")	6,05
	405 mm	brass/copper, thread G1/2"	6,05
		stainless steel PN40 (thread M20x1,5 or G1/2")	17,30
		painted (thread M20x1,5 or G1/2")	5,00
	635 mm	chromed (thread M20x1,5 or G1/2")	6,35
		brass/copper, thread G1/2"	6,35
		stainless steel PN40 (thread M20x1,5 or G1/2")	17,30
	1 005 mm	painted (thread M20x1,5)	11,70
		chromed (thread M20x1,5)	13,75
	1 505 mm	painted (thread M20x1,5)	14,30
		chromed (thread M20x1,5)	16,00
Weld-on piece stainless		(inner thread M20x1,5 or G1/2")	6,00
Weld-on piece steel		(inner thread M20x1,5 or G1/2")	2,00
Adjustable screw socket	for stem ø 8 mm	zinc coated – blue chromate	1,45
		chromed	1,75
	for stem ø 12 mm	zinc coated – blue chromate	1,50
		chromed	1,90
Back-pressure valve ZV4.4			2,15
Attachment (both variants of screw)			1,80
Accessories for TKS (both variants)			11,40

THERMOSTATS AND THERMAL CUTOUTS

Capillary thermostats and thermal cutouts

(Price for both angular and straight design of RT thermostat is the same.)



KR 10.DR	7-77 °C	capillary length	500 mm	2 terminals	7,00
KR 10	7-77 °C	capillary length	500 mm	2 terminals	7,00
KR 20	35-95 °C	capillary length	1 000 mm	2 terminals	7,05
KR 11.TR	7-77 °C	capillary length	1 000 mm	3 terminals	7,05
KR 11	7-77 °C	capillary length	500 mm	3 terminals	7,25
KR 21	35-95 °C	capillary length	1 000 mm	3 terminals	7,50

				EUR
RT 8801.01	0-40 °C	capillary length 1 000 mm	2 terminals	7,60
RT 8802.01A	35-95 °C	capillary length 1 459 mm	2 terminals	7,80
RT 8803.02	7-77 °C	capillary length 500 mm	2 terminals	7,45
RT 8804.01	50-190 °C	capillary length 1 000 mm	2 terminals	7,65
RT 8804.01	50-250 °C	capillary length 1 000 mm	2 terminals	7,80
RT 8804.01	50-320 °C	capillary length 1 000 mm	2 terminals	7,35
RT 8804.01	50-320 °C	capillary length 1 500 mm	2 terminals	7,45
RT 8801.011	0-40 °C	capillary length 1 000 mm	3 terminals	7,60
RT 8803.021	7-77 °C	capillary length 500 mm	3 terminals	8,30
RT 8804.011	50-190 °C	capillary length 1 000 mm	3 terminals	8,85
RT 8804.011	50-320 °C	capillary length 1 000 mm	3 terminals	8,85
RT 8824.011	-15-+310 °C	capillary length 1 500 mm	3 terminals	12,15
KNTP 8812.02	35-99 °C	capillary length 1 000 mm	single-pole	** 7,40
KNTP 8813.02	35-80 °C	capillary length 500 mm	single-pole	** 7,40
KNTP 8814.02	50-320 °C	capillary length 900 mm	single-pole	** 7,60
KNTP 8823.02	35-99 °C	capillary length 500 mm	double-pole	** 9,40
STB 89.76	85-110 °C	capillary length 2 000 mm	single-pole	** 9,20

Stem thermostats



TH 20			48,95
TH 140			46,60
TH 140 PZP 16			** 43,45
TH 141			46,20
TH 143			43,05
TH 144			42,70
TH 160		2 terminals, with cover	20,35
TH 160.1		2 terminals, without cover	20,35
TH 160.2		3 terminals	21,90
TH 162			** 20,40
TH 163			22,10
TH 164			22,30
TH 165			** 21,90
TH 166			21,90
TH 167			22,70
TH 167.1			24,25
TH 169			22,70
TH 220			56,80
TH 221			52,85
TH 260			97,55
TH 261			96,75
TH 810.2			** 33,65

Bimetallic thermostats and thermal cutouts



TH 470			6,60
TH 470.1			6,60
TH 470.2			7,00

EUR

TH 472 RA / TH 472 ZA	*	7,05
TH 472 RB / TH 472 ZB	*	7,25
TH 472 RC / TH 472 ZC	*	7,25
TH 472 RD / TH 472 ZD	*	7,60
TH 473 RA / TH 473 ZA	*	8,20
TH 473 RB / TH 473 ZB	*	8,60
TH 476 RA	*	9,00
TH 476 RB	*	8,60
TH 480 RA / TH 480 ZA	*	8,60
TH 480 RB / TH 480 ZB	*	8,20
TH 480 RC / TH 480 ZC	*	8,20
TH 480 RD / TH 480 ZD	*	8,60
TH 490		7,80

Accessories for thermostats and thermal cutouts

Thermostat well	TH 20	6,70
	TH 140 + 143	6,95
	TH 140 PZP 16	5,95
	TH 141 + 144	5,80
	TH 160, TH 169	6,40
	TH 162 + TH 163	4,80
	TH 164 + TH 165	5,15
	TH 166	5,35
	TH 167	6,05
TH 140 – cover		1,40
Terminal cover		1,00
Button for capillary thermostat	white shaped button	0,60
	black flat button	0,70
	grey flat button	0,70
	black convex button	0,70
Button backplate	white backplate	0,40
	white printed backplate	0,60
	black backplate	0,45
Capillary cutout holder		0,25

HEAT COST ALLOCATORS, WATER METERS

(These products are distributed via authorized technical-business partners and are not intended for individual sale.
Please contact us for further informations.)



EUR

Heat cost allocators

Electronic heat cost allocators

E-ITN 30	2 temperature sensors	visual, IR, radio reading	31,40
E-ITN 30	2 temperature sensors, external sens.	visual, IR, radio reading	58,80
E-ITN 40	2 temperature sensors	visual, NFC, radio reading	39,20

Water meters and heat meters



Water meter JS02 DN 15 (Aparator Powogaz)	modification for E-RM 30	17,60
Water meter JS02 DN 20 (Aparator Powogaz)	modification for E-RM 30	21,60
Radio module E-RM 30		32,00
Water meter JS02 DN 15 / module E-RM 30 (10+1 yr.)	water meter including radio module	54,90
Water meter JS02 DN 20 / module E-RM 30 (10+1 yr.)	water meter including radio module	58,80

Household water meters Aparator Powogaz	price upon request
Industrial water meters Aparator Powogaz	price upon request
Combined water meters Aparator Powogaz	price upon request
Heat meters Aparator Powogaz	price upon request

Accessories for heat cost allocators and water meters

Accessories for heat cost allocators and water meters

Reading unit IRU 10.00	78,40
Reading unit RFU 35	240,00
Reading unit RFU 40	320,00
Panel antenna for RFU 35 or RFU 40 (8,7 dBi) including antenna cable	117,50
Antenna cable for panel antenna	31,40
Antenna reduction for panel antenna	31,40
Car antenna for RFU including antenna cable	117,50
Central reading system CRS 40	price upon request
Wireless M-BUS reading systems (Aparator Telemetria/Aparator Powogaz)	price upon request
Mounting lever for E-ITN 30	47,00
Labelled mechanical seal for E-ITN 10	0,50
Labelled mechanical seal for E-ITN 20/30	0,50
Seal for E-RM 30	0,30
Sealing pliers for E-RM 30	117,50
Extra pay for spacer 45	1,20
Extra pay for tubular radiator spacer	15,70
Clamp I	0,70
Clamp III	0,75
Clamp IV	0,85

Other products



EUR

Sliding cylindrical resistors - discount

OPK 200x30	0,16 A	3 900 Ω	52,85
OPK 200x30	0,25 A	1 850 Ω	52,85
OPK 200x30	0,4 A	580 Ω	52,85
OPK 200x30	0,63 A	200 Ω	52,85
OPK 200x30	1 A	100 Ω	62,45
OPK 200x30	1,6 A	42 Ω	62,45
OPK 200x30	4 A	6,4 Ω	62,45
OPK 200x30	6,3 A	2,2 Ω	62,45
OPK 300x45	0,16 A	9 800 Ω	68,95
OPK 300x45	0,25 A	4 600 Ω	68,95
OPK 300x45	0,4 A	1 450 Ω	68,95
OPK 300x45	0,63 A	500 Ω	68,95
OPK 300x45	1 A	250 Ω	73,25
OPK 300x45	1,6 A	105 Ω	73,25
OPK 300x45	4 A	16 Ω	82,85
OPK 300x45	6,3 A	5,5 Ω	86,55
OPK 500x60	0,16 A	23 400 Ω	79,70
OPK 500x60	0,25 A	10 000 Ω	79,70
OPK 500x60	0,4 A	3 500 Ω	79,70
OPK 500x60	0,63 A	1 200 Ω	79,70
OPK 500x60	1 A	570 Ω	83,60
OPK 500x60	1,6 A	250 Ω	88,50
OPK 500x60	4 A	39 Ω	107,50
OPK 500x60	6,3 A	13 Ω	119,85

Accessories for sliding cylindrical resistors

Dropper OPK 30 / Dropper OPK 45 / Dropper OPK 60	7,60
Roller OP	12,15
Clamp M4 OPK, OOPK	2,75
Clamp M5 OPK, OOPK	3,15

SERVICES

Calibration of bimetallic thermometers

Thermometers TR, TU, DTR, DTU, DKR

Calibration	-30-50 °C	7 calibration points	20,65
	0-120 °C	9 calibration points	20,65
	0-160 °C	7 calibration points	20,65
	0-200 °C	9 calibration points	23,45
	0-350 °C	6 calibration points	23,45
	0-450 °C	8 calibration points	25,85

Thermometers T 120 S / N, DTN

Calibration T 120 S / N		7 calibration points	20,65
Calibration DTN	-30-50 °C	9 calibration points	20,65
	-10-50 °C	7 calibration points	20,65

Other services

Logo on thermometer scale	up to 2 colours	EUR price upon request
Outsourcing		contract price

NOTES:

*) Prices are valid if at least 2000 pieces are ordered. For lesser orders, prices are calculated as follows:

Quantity (pcs)	Price (% of basic price)
1 – 10	1 000
11 – 100	600
101 – 500	300
501 – 2 000	150
≥ 2 000	100

**) Extra payment 2 EUR/pc is invoiced when less than 100 pcs is ordered.