



PRICE LIST 2020

Price list is valid from 1st March 2020. 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.....	9
Calibration of bimetallic thermometers.....	9
Other services.....	9

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

tel.: +420 583 718 111
fax: +420 583 718 150
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



EUR

Stainless steel thermometers

Straight thermometer TR 60	up to 60 mm	stem – stainless steel	7,35
	100 mm	stem – stainless steel	7,90
	160 mm	stem – stainless steel	8,70
	250 mm	stem – stainless steel	9,65
Straight thermometer TR 100	up to 60 mm	stem – stainless steel	9,60
	100 mm	stem – stainless steel	9,70
	160 mm	stem – stainless steel	10,10
	250 mm	stem – stainless steel	12,00
	400 mm	stem – stainless steel	15,75
	630 mm	stem – stainless steel	21,40
	1 000 mm	stem – stainless steel	28,30
1 500 mm	stem – stainless steel	37,95	
Straight thermometer TR 120	60 mm	stem – stainless steel	12,20
	100 mm	stem – stainless steel	12,45
	160 mm	stem – stainless steel	12,85
	250 mm	stem – stainless steel	14,40
	400 mm	stem – stainless steel	19,60
	630 mm	stem – stainless steel	25,30
	1 000 mm	stem – stainless steel	33,20
	1 500 mm	stem – stainless steel	42,40
Angle thermometer TU 60	100 mm	stem – stainless steel	15,50
	160 mm	stem – stainless steel	16,00
	250 mm	stem – stainless steel	16,95
	400 mm	stem – stainless steel	17,95
Angle thermometer TU 100	100 mm	stem – stainless steel	17,35
	160 mm	stem – stainless steel	17,75
	250 mm	stem – stainless steel	18,15
	400 mm	stem – stainless steel	21,60
	630 mm	stem – stainless steel	31,60
	1 000 mm	stem – stainless steel	38,60
1 500 mm	stem – stainless steel	48,05	
Angle thermometer TU 120	100 mm	stem – stainless steel	19,80
	160 mm	stem – stainless steel	20,20
	250 mm	stem – stainless steel	20,55
	400 mm	stem – stainless steel	25,20
	630 mm	stem – stainless steel	34,95
	1 000 mm	stem – stainless steel	42,35
1 500 mm	stem – stainless steel	52,95	
Plastic head thermometers			
Straight thermometer DTR	up to 160 mm	stem – stainless steel	11,60
	250 mm	stem – stainless steel	12,65
	400 mm	stem – stainless steel	14,55
	630 mm	stem – painted steel	27,95
	1 000 mm	stem – painted steel	30,25
	1 500 mm	stem – painted steel	39,00

EUR

Angle thermometer DTU	100 mm	stem – stainless steel	16,80
	160 mm	stem – stainless steel	17,00
	250 mm	stem – stainless steel	17,15
	400 mm	stem – stainless steel	21,15
	630 mm	stem – painted steel	32,00
	1 000 mm	stem – painted steel	37,80
	1 500 mm	stem – painted steel	47,80

Other technical thermometers

Contact thermometer DKR 250	to 160 mm		47,55
	250 mm		48,55
	400 mm		55,75
	630 mm		68,55

Thermometer TT60			5,70
Surface thermometer DTTR			10,20
Heat-conductive ring DTTR			0,60
Probing thermometer TRV			40,60

Thermometers for household



Wall thermometer VNT (plastic board with digital print)			19,95
Wall thermometer VNT-B (slate board with laser print)			19,95
Wall thermometer VNT-D (wooden board with laser print)			27,60
Stove pipe probe thermometer TRS 60			15,95
Stove pipe probe thermometer TRS 100			16,75
Wall thermometer DTN			16,75
Wall thermometer T 120 N			15,50
Sauna thermometer T 120 S			16,10
Thermometer for fruit preservation DTD 2			9,00
Thermometer for smokehouse, BBQ and grill (TR100, 0-260°C, stem length 250 mm)			18,35
Thermometer for smokehouse, BBQ and grill (TR100, 0-260°C, stem length 400 mm)			19,00
Thermometer for smokehouse, BBQ and grill (TR60 , 0-260°C, stem length 100 mm)			14,25
Table thermometer DTST			9,80
Window thermometer DTOK			8,40

Capillary thermometers and manometers



Capillary thermometer TCS 48	capillary length 1 450 mm	5,10
Capillary thermometer TCS 60	capillary length 1 450 mm	6,10
Manometer MCS 48	capillary length 920 mm	15,90
Manotherm MTCC 60	capillary length 1 450 mm (therm. part) 920 mm (man. part)	19,20

Oven thermometers



Oven thermometer DTSP		13,05
Oven thermometer DIT 40.2		3,75
Oven thermometer DIT 41.1		5,25
Oven thermometer DIT 41.2		10,20

Accessories for thermometers and manometers



			EUR
Thermometer well	50 mm	painted (thread M20x1,5 or G $\frac{1}{2}$ "	3,85
		chromed (thread M20x1,5 or G $\frac{1}{2}$ "	4,50
	65 mm	brass/copper, thread G $\frac{1}{2}$ "	4,50
		stainless steel PN40 (thread M20x1,5 or G $\frac{1}{2}$ "	7,45
		painted (thread M20x1,5 or G $\frac{1}{2}$ "	3,95
	105 mm	chromed (thread M20x1,5 or G $\frac{1}{2}$ "	4,60
		brass/copper, thread G $\frac{1}{2}$ "	4,60
		stainless steel PN40 (thread M20x1,5 or G $\frac{1}{2}$ "	7,65
	165 mm	painted (thread M20x1,5 or G $\frac{1}{2}$ "	4,00
		chromed (thread M20x1,5 or G $\frac{1}{2}$ "	4,65
		brass/copper, thread G $\frac{1}{2}$ "	4,65
	255 mm	stainless steel PN40 (thread M20x1,5 or G $\frac{1}{2}$ "	9,45
		painted (thread M20x1,5 or G $\frac{1}{2}$ "	4,15
		chromed (thread M20x1,5 or G $\frac{1}{2}$ "	5,30
405 mm	brass/copper, thread G $\frac{1}{2}$ "	5,30	
	stainless steel PN40 (thread M20x1,5 or G $\frac{1}{2}$ "	11,40	
	painted (thread M20x1,5 or G $\frac{1}{2}$ "	4,20	
635 mm	chromed (thread M20x1,5 or G $\frac{1}{2}$ "	5,40	
	brass/copper, thread G $\frac{1}{2}$ "	5,40	
	painted (thread M20x1,5 or G $\frac{1}{2}$ "	4,60	
1 005 mm	chromed (thread M20x1,5 or G $\frac{1}{2}$ "	5,90	
	painted (thread M20x1,5 or G $\frac{1}{2}$ "	6,35	
	chromed (thread M20x1,5 or G $\frac{1}{2}$ "	7,95	
1 505 mm	painted (thread M20x1,5)	8,85	
	chromed (thread M20x1,5)	10,50	
Weld-on piece stainless		(inner thread M20x1,5 or G $\frac{1}{2}$ "	5,50
Weld-on piece steel		(inner thread M20x1,5 or G $\frac{1}{2}$ "	1,90
Adjustable screw socket	for stem \varnothing 8 mm	zinc coated – blue chromate	1,00
		chromed	1,35
Adjustable cone socket	for stem \varnothing 12 mm	zinc coated – blue chromate	1,05
		chromed	1,45
Back-pressure valve ZV4.4		zinc coated – blue chromate	1,20
		chromed	1,55
Attachment (both variants of screw)			1,80
			1,55

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	6,35
KR 10	7-77 °C	capillary length	500 mm	2 terminals	6,35
KR 20	35-95 °C	capillary length	1 000 mm	2 terminals	6,55

				EUR
KR 11.TR	7-77 °C	capillary length 1 000 mm	3 terminals	6,80
KR 11	7-77 °C	capillary length 500 mm	3 terminals	6,60
KR 21	35-95 °C	capillary length 1 000 mm	3 terminals	6,95
RT 8801.01	0-40 °C	capillary length 1 000 mm	2 terminals	7,15
RT 8802.01A	35-95 °C	capillary length 1 459 mm	2 terminals	7,30
RT 8803.02	7-77 °C	capillary length 500 mm	2 terminals	6,95
RT 8804.01	50-190 °C	capillary length 1 000 mm	2 terminals	7,15
RT 8804.01	50-250 °C	capillary length 1 000 mm	2 terminals	7,20
RT 8804.01	50-320 °C	capillary length 1 000 mm	2 terminals	6,80
RT 8804.01	50-320 °C	capillary length 1 500 mm	2 terminals	6,95
RT 8801.011	0-40 °C	capillary length 1 000 mm	3 terminals	7,15
RT 8803.021	7-77 °C	capillary length 500 mm	3 terminals	7,75
RT 8804.011	50-190 °C	capillary length 1 000 mm	3 terminals	8,20
RT 8804.011	50-320 °C	capillary length 1 000 mm	3 terminals	8,25
RT 8824.011	-15-+310 °C	capillary length 1 500 mm	3 terminals	12,40
KNTP 8812.02	35-99 °C	capillary length 1 000 mm	single-pole	** 6,95
KNTP 8813.02	35-80 °C	capillary length 500 mm	single-pole	** 6,95
KNTP 8814.02	50-320 °C	capillary length 900 mm	single-pole	** 7,00
KNTP 8823.02	35-99 °C	capillary length 500 mm	double-pole	** 8,60
STB 89.76	85-110 °C	capillary length 2 000 mm	single-pole	** 8,00

Stem thermostats



TH 20		34,65
TH 140		35,35
TH 140 PZP 16		** 32,40
TH 141		35,50
TH 143		34,25
TH 144		34,40
TH 160	2 terminals, with cover	18,00
TH 160.1	2 terminals, without cover	17,95
TH 160.2	3 terminals	19,60
TH 162		** 17,20
TH 163		18,20
TH 164		18,20
TH 165		** 18,00
TH 166		18,00
TH 167		19,80
TH 167.1		20,70
TH 169		18,90
TH 220		51,65
TH 221		46,55
TH 260		69,25
TH 261		70,00
TH 810.2		** 30,00



Bimetallic thermostats and thermal cutouts

TH 470	5,40
TH 470.1	5,40

	EUR
TH 470.2	5,80
TH 472 ZA	* 4,90
TH 472 ZB	* 5,30
TH 472 ZC	* 5,30
TH 472 ZD	* 5,50
TH 472 RA	* 5,80
TH 472 RB	* 5,90
TH 472 RC	* 5,90
TH 472 RD	* 6,35
TH 473 ZA	* 6,95
TH 473 ZB	* 7,35
TH 473 RA	* 6,95
TH 473 RB	* 7,35
TH 480 ZA	* 7,55
TH 480 ZB	* 7,15
TH 480 ZC	* 7,15
TH 480 ZD	* 7,55
TH 480 RA	* 7,55
TH 480 RB	* 7,15
TH 480 RC	* 7,15
TH 480 RD	* 7,55
TH 490	6,75
TH 476 RA	* 6,95
TH 476 RB	* 7,35

Accessories for thermostats and thermal cutouts

Thermostat well	TH 20	5,80
	TH 140 + 143	5,70
	TH 140 PZP 16	5,05
	TH 141 + 144	4,90
	TH 160, TH 169	5,40
	TH 162 + TH 163	3,85
	TH 164 + TH 165	4,30
	TH 166	4,40
	TH 167	4,85
	TH 140 – cover	0,80
Terminal cover	0,60	
Button for capillary thermostat	white shaped button	0,55
	black flat button	0,60
	grey flat button	0,60
	black convex button	0,60
Button backplate	white backplate	0,40
	white printed backplate	0,55
	black backplate	0,40
Capillary cutout holder	0,20	

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	27,75
E-ITN 30	2 temperature sensors, external sens.	visual, IR, radio reading	46,90
E-ITN 40	2 temperature sensors	visual, NFC, radio reading	30,60

Water meters and heat meters



Water meter JS02 DN 15 (Apator Powogaz)	modification for E-RM 30	15,50
Water meter JS02 DN 20 (Apator Powogaz)	modification for E-RM 30	16,55
Radio module E-RM 30		30,60
Water meter JS02 DN 15 / module E-RM 30 (10+1 yr.)	water meter including radio module	46,10
Water meter JS02 DN 20 / module E-RM 30 (10+1 yr.)	water meter including radio module	47,15

Household water meters Apator Powogaz	price upon request
Industrial water meters Apator Powogaz	price upon request
Combined water meters Apator Powogaz	price upon request
Heat meters Apator 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	58,00
Reading unit RFU 35	240,00
Reading unit RFU 40	280,00
Panel antenna for RFU 35 or RFU 40 (8,7 dBi) including antenna cable	110,00
Antenna cable for panel antenna	31,40
Antenna reduction for panel antenna	31,40
Car antenna for RFU including antenna cable	110,00
Central reading system CRS 40	price upon request
Wireless M-BUS reading systems (Apator Telemetry/Apator Powogaz)	price upon request

Mounting lever for E-ITN 30	37,25
Labelled mechanical seal for E-ITN 10	0,40
Labelled mechanical seal for E-ITN 20/30	0,40
Seal for E-RM 30	0,25

Accessories for evaporation heat cost allocators

Ampule RTN02	0,50
Ampule RTN02 higher evaporation	0,50
Labelled mechanical seal for RTN	0,20

Extra pay for spacer 45	0,90
Extra pay for tubular radiator spacer	13,95
Clamp I	0,50
Clamp III	0,60
Clamp IV	0,70

Other products



EUR

Sliding cylindrical resistors - discount

OPK 200x30	0,16 A	3 900 Ω	49,40
OPK 200x30	0,25 A	1 850 Ω	49,40
OPK 200x30	0,4 A	580 Ω	49,40
OPK 200x30	0,63 A	200 Ω	49,40
OPK 200x30	1 A	100 Ω	49,40
OPK 200x30	1,6 A	42 Ω	49,40
OPK 200x30	4 A	6,4 Ω	56,00
OPK 200x30	6,3 A	2,2 Ω	58,40
OPK 300x45	0,16 A	9 800 Ω	63,20
OPK 300x45	0,25 A	4 600 Ω	63,20
OPK 300x45	0,4 A	1 450 Ω	63,20
OPK 300x45	0,63 A	500 Ω	63,20
OPK 300x45	1 A	250 Ω	66,00
OPK 300x45	1,6 A	105 Ω	66,00
OPK 300x45	4 A	16 Ω	76,80
OPK 300x45	6,3 A	5,5 Ω	80,40
OPK 500x60	0,16 A	23 400 Ω	74,00
OPK 500x60	0,25 A	10 000 Ω	74,00
OPK 500x60	0,4 A	3 500 Ω	74,00
OPK 500x60	0,63 A	1 200 Ω	74,00
OPK 500x60	1 A	570 Ω	77,60
OPK 500x60	1,6 A	250 Ω	82,20
OPK 500x60	4 A	39 Ω	99,80
OPK 500x60	6,3 A	13 Ω	111,20

Accessories for sliding cylindrical resistors

Dropper OPK 30	7,00
Dropper OPK 45	7,00
Dropper OPK 60	7,00
Roller OP	10,60
Clamp M4 OPK, OOPK	2,15
Clamp M5 OPK, OOPK	2,55

SERVICES

Calibration of bimetallic thermometers

Thermometers TR, TU, DTR, DTU, DKR

Calibration	-30-50 °C	7 calibration points	18,30
	0-120 °C	9 calibration points	18,30
	0-160 °C	7 calibration points	18,30
	0-200 °C	9 calibration points	20,90
	0-350 °C	6 calibration points	20,90
	0-450 °C	8 calibration points	23,55

Thermometers T 120 S / N, DTN

Calibration T 120 S / N		7 calibration points	18,30
Calibration DTN	-30-50 °C	9 calibration points	18,30
	-10-50 °C	7 calibration points	18,30

Other services

Logo on thermometer scale	up to 2 colours	0,30
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.