



# DIGITAL THERMOMETERS

- **TEMPERATURE MEASUREMENT** of liquids, air, bulk substances, the surface of solid objects
- **MEASUREMENT OF THE RELATIVE HUMIDITY** air



COLOR BACKLIT DISPLAY  
(DT-527, DT-529)



GRAPHS ON THE DISPLAY



MEMORY CARD  
(INSTALLABLE)



WIDE RANGE OF CONNECTED  
PROBES



CONNECTING  
THERMOCOUPLES OF  
VARIOUS TYPES



DISPLAYING  
MIN/MAX VALUES



## MAIN APPLICATION AREAS



### HEAT AND WATER SUPPLY, POWER ENGINEERING AND REAL ESTATE MANAGEMENT

- Diagnostics of the heat and water supply equipment
- Indoor air temperature and humidity measurement during the maintenance of residential areas for quality control of living conditions
- Ventilation and air conditioning systems temperature control to create the necessary balance
- Temperature and relative humidity control at the workplaces



### OIL AND GAS INDUSTRY

- Temperature control of the liquids and air in boreholes
- Temperature measurement during transportation of petroleum products
- Temperature control of liquids, air, viscous fluids and surfaces of compressor stations equipment
- Selective temperature control during technological processes in oil and gas enterprises
- Temperature control of petroleum products at storage facilities, tanks and gas stations
- Dew point temperature calculation



### METALLURGICAL INDUSTRY AND METALWORKING

- Fast control of the melt temperature of non-ferrous and ferrous metals
- Application during all technological processes that require temperature and relative humidity control
- Measurement of the components and products temperature by forging or punching during their manufacture
- Temperature and relative humidity measurement at the workplaces



### WAREHOUSE STORAGE AND TRANSPORT COMPANIES

- Fast control of the temperature during transportation in order to comply with temperature requirements
- Temperature and humidity control in warehouses to comply with storage conditions
- Temperature control when setting up and checking air conditioning and ventilation systems



## CONSTRUCTION AND ROAD INFRASTRUCTURE

- Fast control of asphalt concrete mixture temperature during road construction
- Temperature measurements of raw materials during production of building materials
- Temperature control of hardening concrete during casting of various products
- Temperature control during the capital construction of walls and slabs using monolithic structures



## AGRICULTURAL ENTERPRISES

- Quick measurement of the protected soil in greenhouses to maintain the necessary growing conditions
- Selective control of the air temperature and humidity on farms, in greenhouses, storage facilities, refrigerators to control the necessary requirements
- Temperature and humidity control of cultivation, storage, transportation of raw materials and finished products in order to preserve the products quality
- Dew point temperature calculation



## FOOD INDUSTRY, SUPERMARKETS AND TRADING COMPANIES

- Temperature and humidity control of the main parameters when cooking in cafes, restaurants, fast food outlets, catering services
- Selective control of temperature and relative humidity during technological processes of drying, cooking, smoking, making bakery and confectionery products, milk processing and control of other processes
- Fast control of food temperature and humidity in supermarket refrigerators and freezers



## RESEARCH LABORATORIES AND TESTING CENTERS

- Effective temperature control of gaseous and liquid medium, dry materials, solid objects surfaces
- Microclimate inspection during scientific tests
- Measurement of air mixtures humidity
- Automatic dew point temperature calculation

Fast response

Display resolution: 1; 0,1; 0,01

Intuitive keyboard

Easy-to-operate device









USB micro (DT-527, DT-529)

High measurement accuracy
















Wide range of probes solving various tasks



## DIGITAL THERMOMETERS

CHOOSE THE RIGHT DIGITAL THERMOMETER	WITH NON-REPLACEABLE PROBES		WITH REPLACEABLE PROBES					
	DT-501P	DT-501S	DT-504	DT-506	DT-509	DT-511	DT-527	DT-529
								
with a penetration probe	with a surface probe	single-channel	thermo-hygrometer	multi-functional	two-channel	with a memory card	with universal inputs	
Measurement range, °C	-40...+200	-20...+200	-100...+1800 depending on the connected probe					
Measurement range of relative humidity, %	—	—	—	0,1...100	0,1...100	0,1...100	0,1...100	0,1...100
Min instrumental error, °C	from 0,5	from 2	from 1	from 0,2	from 0,2	from 0,2	from 0,2	from 0,2
Resolution, °C	0,1	0,1	0,1	0,1	0,1	0,1	0,01	0,01
Number of probe types	1	1	26	48	48	48	48	48
Measurement of the relative humidity	—	—	—	✓	✓	✓	✓	✓
Displaying min, max, average value	—	—	—	—	✓	✓	✓	✓
Working simultaneously with two probes	—	—	—	—	—	✓	✓	✓
Logging function	—	—	—	—	—	—	✓	✓
Color display with the ability to make graphs	—	—	—	—	—	—	✓	✓

The devices have backlight indication, sound indication of battery discharge and automatic shutdown of the device after set time

Connected probes	The article for the order	Appearance	Length L, mm	Measurement range	Application	DT-504	DT-506, DT-509, DT-511, DT-527, DT-529
<b>Penetration probe</b>	PP-150 PP-300 PP-500		150 300 500	-40...+200 °C -40...+300 °C -40...+600 °C	liquids, viscous fluids, dry materials	✓	✓
<b>Enforced penetration probe</b>	EPP-150 EPP-300 EPP-500 EPP-1000 EPP-1500		150 300 500 1000 1500	-40...+200 °C -40...+300 °C -40...+600 °C -40...+600 °C -40...+600 °C	liquids, viscous fluids, dry materials, atmosphere	✓	✓
<b>Liquid penetration probe</b>	LPP-3000+		up to 20 m	-40...+200 °C	liquids	✓	✓
<b>Viscous fluid penetration probe</b>	VPP-3000		up to 20 m	-40...+200 °C	liquids, heavy oil fractions	✓	✓
<b>Thermocouple probe</b>	TCP			-100...+1800 °C	thermo- couples of the type K, L, R, S, B	✓	✓
<b>Surface probe</b>	SP-150 SP-300 SP-500 SP-1000		150 300 500 1000	-40... +250 °C	solid surfaces	✓	✓
<b>Bent surface probe</b>	BSP-300 BSP-500		300 500	-40... +250 °C	solid hard- to-reach surfaces	✓	✓
<b>HT surface probe</b>	HTSP-300 HTSP-500 HTSP-1000		300 500 1000	-40... +500 °C	solid surfaces	✓	✓
<b>High-precision surface probe (±0,5°C)</b>	HPSP-150 HPSP-300 HPSP-500		150 300 500	-40... +250 °C	solid surfaces	✗	✓
<b>Air probe</b>	AP-150 AP-500 AP-1000		150 300 1000	-40... +200 °C -40... +600 °C -40... +600 °C	atmosphere	✓	✓
<b>High-precision air probe (±0,2°C)</b>	HPAP-150		150	-40... +200 °C	atmosphere	✗	✓
<b>Portable temperature &amp; humidity probe</b>	PTHP			0,1...100% -20...+ 85 °C	atmosphere	✗	✓
<b>Temperature &amp; humidity probe</b>	THP-150 THP-500 THP-1000		150 500 1000	0,1...100% -20... +85°C	atmosphere	✗	✓
<b>Flexible temperature &amp; humidity probe</b>	FTHP			0,1...100% -20... +85°C	atmosphere	✗	✓
<b>Atmospheric pressure probe</b>	APP			от 225 до 820	atmosphere	Probe only for DT-527, DT-529	



## MEASUREMENTS ARE QUICK AND EASY

- 1 TURN ON THE DEVICE
- 2 MEASURE  
(up to 3 seconds)
- 3 GET THE RESULT

## USING THESE DEVICES YOU CAN



**SIMPLIFY  
YOUR WORK**

accuracy, reliability, fast and easy operation allow the devices to be used during various technical processes to solve different tasks



**QUICKLY RESOLVE  
CONTROVERSIAL  
ISSUES**

reports on compliance with technical processes during operation (graphs, tables and etc.) help you to identify violations, evaluate the effectiveness and quality of provided services



**PROMPTLY  
ELIMINATE  
ACCIDENTS AND  
MALFUNCTIONS**

properly selected devices help you to eliminate emergency situations within the time limits, save time and resources



**SAVE RESOURCES  
REDUCE EXPENCES**

accurate control of equipment, diagnostics and monitoring facilities and pipelines condition help you to avoid losses and save financial resources

## TRUSTED BY PROFESSIONALS



**INNOVATIONS**



**EFFICIENCY**



**VERSATILITY**



**HIGH ACCURACY**



**RELIABILITY**