

TPG-03x

RAIN GAUGE



TPG-034-*
TPG-036-*
TPG-037-IT-*
TPG-037-AM-*



TPG-035-*

Rain gauges serve to measurement liquid and solid precipitations.

They are designed especially for:

- meteorological services - to standard measurements of precipitations for synoptic aims;
- services of environment's protection - to opinion of dangers connected with spreading pollutions for mediation of drop waters in places like industrial objects emitting harmful substances, sewage treatment plants, place where are stored industrial and municipal wastes etc.

Rain gauges can work as autonomic devices or also as part of automatic measuring systems.

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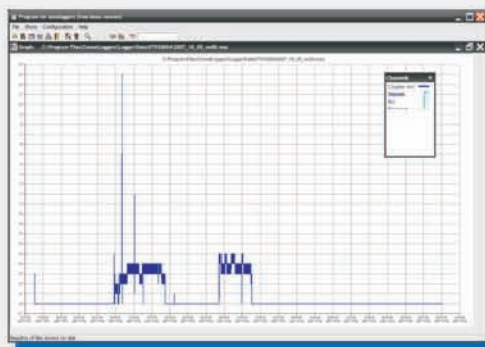
Realization of rain gauges:

- ✓ **TPG-034-*** - Rain gauge with universal NO (normally open) output, for automatic meteorological station.
- ✓ **TPG-035-*** - Autonomic rain gauge, counting, summation, with display.
- ✓ **TPG-036-*** - Autonomic rain gauge registering temporary strains and distribution of falls in time with summation display.
- ✓ **TPG-037-IT-*** - Rain gauge with direct access to the measuring data through build-in GPRS modem and World Wide Web. Required network feeding ~230V.
- ✓ **TPG-037-AM-*** - Rain gauge designed for cluster operation within the framework of miscellaneous measuring instruments (rain gauges too), transmitting the measuring data through the GPRS modem to the main server of **AsterMet** system collecting and making accessible data through the World Wide Web. Required network feeding ~230V.

- * **NH** not heated
- H24** heated (power supply ~24 V)
- H230** heated (power supply ~230 V)



Measuring mechanism
of rain gauge



COMET datalogger program
for TPG-036-* rain gauge



LCD meter of TPG-035-*
rain gauge



MEASUREMENTS
& DATA ACQUISITION

Technical specifications

	TPG-034-*	TPG-035-*	TPG-036-*	TPG-037-IT/AM-*
Measuring mechanism	tipping bucket			
Measuring surface	200cm ²			
Resolution of fall's measurement	0,1mm			
Accuracy	±0,1 mm for fall <5 mm by intensity of fall 10 mm/h ±0,2 mm for fall >5 mm by intensity of fall 10 mm/h ±0,2 mm/h by intensity of fall 2...10 mm/h ±0,2% by intensity of fall >10 mm/h			
Sensor of overflow	SPST			
Electric parameters of sensor	max. 200 V DC, max. 0,5 A			
Range of registration	unlimited	999,9 mm of fall	1999,9 mm of fall (LCD) logger memory capacity min.16252 max.32504 measurements	unlimited
Reading of data	X	built-in display LCD	built-in display LCD, RS-232 or USB	data access by hand of Internet
Range of work's temperatures	NH	0...+60°C		
	H	-30...+60°C		

Power supply	NH	X	battery AA 1,5 V	lithium battery 3,6 V	~230 V
	H	~24 V or 230 V~ (heating) + battery (TPG-035, TPG-036)			
Power consumption	NH	X	battery life min. 1 year		0,5 W
	H	max. 50 W (heating)			

Housing	laminat
Size (without basis)	φ230x460 mm
Size (with basis)	230x230x1250 mm
Weight (with basis)	approx. 9 kg

The module of heating of inside rain gauge (the instruments with sign H)

Heater	50 W
Power supply	24 V (from built-in transformer)
Heating control	automatic, depend of temperature inside and outside of device
Thermostat	bimetallic, two-stage

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