TRAFFIC CLASSIFIER — DPZ-20

DPZ-20 is an intelligent measurement module designed for comprehensive traffic monitoring and supporting the operation of traffic management systems.

DPZ-20 enables real-time monitoring of traffic parameters, their aggregation and analysis for the purposes of event detection.

DPZ-20 ensures continuous traffic measurement in all environmental conditions.

TECHNICAL DATA

SUPPLY VOLTAGE	9 … 32 VDC	
POWER CONSUMPTION	max 1,85 W	
INPUTS/OUTPUTS	Analog inputs	2 x induction loops: 80 … 300 µH; 2 x piezoelectric sensor: -5 … +10V
	Digital inputs	2 x digital input (passive dry contact to the ground))
	Digital outputs	2 x digital output 350 mA, max. 28V
INTERFACE	Ethernet 10 Mb/s	
PROCESSOR	CPU: GG380 ARM Cortex M4, 48 MHz	
	Ethernet: LG980, ARM Cortex M3, 28 MHz	
PROTOCOLS	Modbus, Moher, MQTT, JSON	
MEMORY		
Flash	524.288 individual data records; 8.000 aggregated data records	
uSD 4 GB card (option)	120 mln individual data records; 500.000 aggregated data records	
NUMBER OF TRAFFIC LANES	1	
CLASSIFICATION SCHEMES		
Traffic category	free flow traffic, restricted traffic	
Vehicles class	2+1 (E2), 8+1 (A1), E13	
AGGREGATION INTERVAL	configurable, 1 to 60 min	
LOCAL SERVICE	configuration buttons, OLED display embedded	
WORKING CONDITIONS		
Temperature	-35 … +65 ºC	
Ingress protection	IP-30	
MECHANICAL		
Dimensions (width x height x depth)	108 x 90 x 60 mm	
Weight	260 g	
Assembly	35 mm DIN rail	

MEASUREMENT DATA

INDIVIDUAL DATA

date and time of passage
traffic direction
speed
electric equivalent length
number of axles of the vehicle and trailer
axle spacing
occupancy
time gap
traffic category
vehicle class

STATISTICAL DATA

traffic volume broken down by vehicle categories
traffic volume broken down by traffic categories
average and maximum speed broken down by light and heavy vehicles
traffic volume in speed ranges, broken down into traffic categories
number of vehicles exceeding the speed limits broken down by vehicle category
traffic density
occupancy