

AGAT-R801 GSM-R LOCOMOTIVE TERMINAL

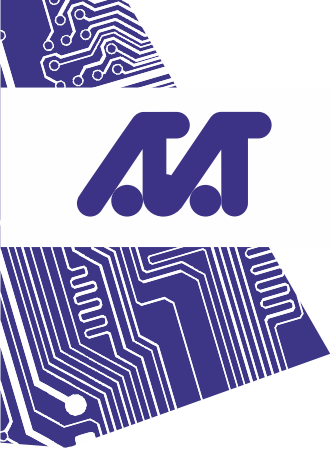
"AGAT-SYSTEM" OAO have developed and presented for serial production the Agat-P801 GSM-R locomotive terminal within the framework of the scientific and technical program "Creation of modern radio communication equipment and development of their production in the Republic of Belarus in 2007-2010" (SSTP "Radio Communication") in the interest of the Ministry of Transport of the Republic of Belarus. Permit for the use of radio frequencies for production of equipment of this type has also been obtained.

The terminal conforms to the requirements of international standards ETSI TS 151 010-1, EIRENE in terms of basic parameters when used in a GSM-R network. SRS (v.15), FRS (v.7).



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AGAT-R801 GSM-R LOCOMOTIVE TERMINAL

Basic supply package

Radio unit



Radio communication control panel ПУР-01



Panel manipulator МП-01



The terminal is powered by voltage of 24-110V DC of the locomotive onboard network with a possible variation in the power supply source voltage within $\pm 20\%$.

OPERATING CONDITIONS OF THE COMPONENTS OF THE TERMINAL

Parameter name	ПУР-01	Radio unit	Antenna GSM-R/GPS
Ambient air temperature, °C - minimum - maximum	-25 +55	-40 +65	-40 +65
Ambient air temperature at relative air humidity of 93%, °C	+25	+25	+40

BASIC SPECIFICATIONS

Maximum power, W	8
Emission bandwidth at -3 dB, MHz	0,22
Relative frequency instability, ppm	0,1
Sensitivity, dBm	-104
UHF emission bandwidth at -3 dB, MHz	0,16
Adjacent channel selectivity, dB	-9
Relative frequency instability, ppm	0,1

Supported services:

- GSM phase 2/2+ communication services;
- GSM phase 2/2+ additional services;
- GSM phase 2/2+ data transmission service (GPRS).

Power rating - 2 (maximum output power: 8W).

Sensitivity - minus 104 dBm.

Frequency range (MHz):

- during transmission - 876 - 880 (UIC);
- during reception - 921 - 925 (UIC)

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