

DTU modbus registers map

Modbus registers	Value Type	Access	Description
1-16	STRING(16)	R/O	DTU serial number in ASCII format (one character per one register)
17	UNSIGNED16	R/O	hardware version (in format byte1.byte0)
18	UNSIGNED16	R/O	software version (in format byte1.byte0)
19	UNSIGNED16	R/O	top level in mm (option)
20	UNSIGNED8	R/O	DTU type (0 -> normal DTU)
1000	UNSIGNED16	R/O	fuel level in tenth of mm, 1 corresponds to 0.1 mm
1001	UNSIGNED16	R/O	fuel dencity in tenth of kg/m ³ , 1 corresponds to 0.1 kg/m ³
1002	SIGNED16	R/O	fuel temperature in °C
1003	UNSIGNED8	R/W	fuel type index (0 -> diesel fuel, all types; 1-> diesel summer fuel; 2-> diesel winter fuel; 3 -> diesel arctic fuel; 4 -> kerosene RT; 5 -> kerosene TS; 6 -> petrol AI-80; 7 -> petrol AI-92; 8 -> petrol AI-95). After writing to this register another writing is allowed only after 10 seconds (because each writing to this register causes writing settings to flash memory).
3000	UNSIGNED8	R/O	modbus slave DTU address (from 1 to 247)
3001	UNSIGNED8	R/O	parity settings (0 -> none, 1 -> odd, 2 -> even)
3002, 3003	UNSIGNED32	R/O	Modbus DTU baud rate (bits per second)
5000	UNSIGNED8	R/O	calibration and settings flash status (0 -> good)

1. Default settings: baud rate: 19200, parity: even; slave address: 1; data bits: 8; stop bits : 1; fuel type index: 0.
2. To change default setting (slave address, baud rate and so on) one must use special LCard dtu_configurator software for Windows. To be enable to change DTU settings the required DTU must be connected standalone to PC through RS-485 interface.