

COMMUNICATION EasyEcu 3+ -> PC/Display

1. RS232 settings: Baud rate: 115200, Data bits: 8, Parity: no, Stop bits: 1

2. Communication frame:

| Byte number | Value | Calculation formula | Unit |
|-------------|---|--|------|
| 1 | 0x02 – start of frame | | |
| 2 | Frame date length in bytes In v3.8.3 it is 50 | | |
| 3 | 0x65 – frame type (0x65 means measurement parameters) | | |
| 4-5 | RPM | | RPM |
| 6 | AKU | value/12.8 | V |
| 7-8 | TPS | value/10.23 | % |
| 9-10 | MAP | | kPa |
| 11 | O2 voltage | value/51.0 | V |
| 12 | IAT | value-40 | °C |
| 13 | CLT | value-40 | °C |
| 14-15 | Speed | | |
| 16 | Lambda/AFR | *0.147 | |
| 17 | Status | RUNNING, bit 0 CRANKING, bit 1 AFTERSTART, bit 2 ANTIFLOOD, bit 3 LAUNCH CONTROL, bit 4 CLOSED LOOP, bit 5 IDLE, bit 6 OVERRUN, bit 7 | |
| 18-19 | Ignition angle | value/4.0 | ° |
| 20 | IAC position | | |
| 21-22 | IAC target RPM | | RPM |
| 23-24 | Injection time | value/250.0 | |
| 25 | wup_enrich | value/1.275 | |
| 26 | ase_enrich | value/1.275 | |
| 27 | Dwell time | value/15.625 | ms |
| 28 | Knock value | value/51.0 | V |
| 29 | Knock level | value/51.0 | V |
| 30 | Engine noise | value/51.0 | V |
| 31 | Knock ign retard | value/4.0 | ° |
| 32 | TPS accel | | %/s |
| 33 | IAT correction | value-50 | |
| 34 | O2 correction | value-128 | |
| 35-36 | Boost target | | kPa |
| 37 | Boost PWM | | |
| 38-39 | Fuel consumption | value/14.75 | l/h |
| 40 | Flex fuel alcohol content | | % |
| 41 | Flex fuel temperature | value-40 | °C |
| 42-43 | Debug1_u16 | | |
| 44-45 | Debug2_u16 | | |
| 46 | Injectors duty cycle | | % |
| 47-48 | EGT | | °C |

| | | | |
|-------|---------------------|-------------|----|
| 49 | Trigger error cnt | | |
| 50 | Lambda target | value/100.0 | |
| 51-52 | Analog in | | V |
| 53 | NTC | | °C |
| 54 | CRC | | |
| 55 | 0x03 – end of frame | | |

