ERC specification

Mechanical Dimensions
- ERC PCB: 80mm x 61mm

DC Supply
- RS232-Version
  - 11 to 15 VDC through a 2.1mm by 5.5mm DC-Jack with (+)-pole on the inner contact
    - protected against wrong polarization
    - fused with 1.0 A mini-fuse
  - current consumption (at 12V)
    - stand-by: max 30mA
    - working : max 150mA
- USB-Version
  - 4.0 to 5.5 VDC through USB 2.0/3.x
  - current consumption (at 5.0V)
    - stand-by: max 14mA (70mW)
    - working : max 140mA (700mW)

Temperature-range
- 0°C to 70°C

Measurement input circuits (rotor feedback voltage)
- range: 0 to15V against ground
- input-impedance: > 250KOhm
- 3 auto-range input stages
- protected against high voltage burst coming through the cable
- measurement-resolution: 10 Bit

Relay-Outputs
- DPDT relay-outputs for CW and CCW with 50VAC/3A or 30VDC/2.5A
- SPST relay-output for AUX with 230VAC/3A

Communication-interface (RS232 or USB)
- RS232 through 3.5mm phone-jack and adapter-cable to 9-pin DSUB
- USB 2.0/3.x through type B connector

Controller
- 8-bit RISC-architecture
- bootloader to update firmware through RS232 or USB

Firmware supported features
- delay before rotator starts moving
- delay before attaching brake
- programmable end-stops
- antenna offset
- overshoot-correction for large antennas
- support of overlap up to 180°
- programmable AUX-relay for speed- or brake-function
- speed function by angle or time
- extended Calibration every 30°
- tolerance of position
- security stop if rotor doesn´t move
- configurable communication-speed: 4800 -9600 -19200 – 38400 Baud
- configurable protocol: DCU-1, GS232A, GS232B

Service-Tool and Rotor-Control M
- Supported operating systems
  - Windows 2000 and XP
  - Windows Vista, 7,8,10,11 (32 bit and 64 bit)
- software-calibration
- save and load of all calibration- and configuration-data

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