

Operational Description of RFID part of model Burette Unit EBU

The RFID tag, which is companion to RFID reader, requires no internal power supply. Its contactless interface generates the power supply and the system clock via the resonant circuitry by inductive coupling to the reader. The interface also demodulates data, which is transmitted from the reader to the label IC, and modulates the electromagnetic field for data transmission from the label IC to the reader. Data is stored in a non-volatile memory (EEPROM).

The part of RFID reader receives serial and control data from Printer part. Then CPU processes modulation signal based on 13.56MHz oscillated. The modulated signal is amplified, demodulated and matched into appropriate impedance. Finally the signal is matched to Antenna factor and then it is radiated to RFID tag.