ATTACHMENT J

OPERATIONAL DESCRIPTION OF CASTON-III TRANSCEIVER

CASTON-III is an equipment with the communication function of FSK(Frequency Shift Keying) in order to display the data that is transformed from the weighing value of the object.
CASTON-III consists of A/D and RF part.
A/D part consists of WATCH DOG(IC6) which produces the reset signal of MPU(IC1), EEPROM(IC5) which saves the weight data, A/D Converter(IC4) which converts analog signal from the Load Cell output into digital signal and MPU(IC1) which converts the digital signal produced by A/D Converter into weighing value and displays it through the Display Driver and functions a key operation from the received key data.
RF Part consists of the function that set the frequency by Channel SET(JP1) and MPU(IC1) that transmits the weighing data from the A/D Part into RFB by using the method of FSK(Frequency Shift Keying) and vice versa.
The following is the simple description of operation for this device.
When the power is on by POWER ON SWITCH, then MPU(IC1) of A/D Part reads the weighing data value from the EEPROM(IC5), then this value which is output value produced by A/D Converter(IC4) that converts analog signal of Load Cell into the digital is displayed on the indicator. And then this data is transmitted to RF Part through the RS232 signal. And when the power is on, RF Part calculates the frequency channel value by JP1 and this calculated frequency is set through PLL of RFB.
Then device is set to stand-by condition by converting into the receiving mode.
When the weighing data of RS232 from A/D Part is forwarded, it is converted into transmitting mode then again it is converted into receiving mode after sending the weighing data. In this receiving mode, key data that are transmitted from the outside display is transmitted into A/D Part through RS232.