

5. Command Set

Command Code	Functional Description	Remark
Miscellaneous Commands:		
Hex 7F	Warm Reset	
Hex 1B	Abort	
Hex 4D	Red LED On	
Hex 6D	Red LED Off	
Hex 4C	Green LED On	
Hex 6C	Green LED Off	
Hex 28	Yellow LED On	
Hex 29	Yellow LED Off	
Hex 59	Buzzer On	
Hex 79	Buzzer Off	
Read Commands:		
Hex 50	Arm to Read	
Hex 51	Read T1, Standard T1 Format	
Hex 52	Read T2, Standard T2 Format	
Hex 53	Read T3, Standard T3 Format	
Hex 71	Read T1, Non-Standard Track Format	1 Parameter
Hex 72	Read T2, Non-Standard Track Format	1 Parameter
Hex 73	Read T3, Non-Standard Track Format	1 Parameter
Hex 55	Read T1, Custom Data Format (5, 6, or 7 Bits)	1 Parameter
Hex 56	Read T2, Custom Data Format (5, 6, or 7 Bits)	1 Parameter
Hex 57	Read T3, Custom Data Format (5, 6, or 7 Bits)	1 Parameter
Write Commands:		
Hex 40	Arm to Write with RAW	
Hex 41	Write T1, Standard T1 Format	
Hex 42	Write T2, Standard T2 Format	
Hex 43	Write T3, Standard T3 Format	
Hex 61	Write T1, Non-Standard Track Format	1 Parameter
Hex 62	Write T2, Non-Standard Track Format	1 Parameter
Hex 63	Write T3, Non-Standard Track Format	1 Parameter
Hex 45	Write T1, Custom Data Format (5, 6, or 7 Bits)	1 Parameter
Hex 46	Write T2, Custom Data Format (5, 6, or 7 Bits)	1 Parameter
Hex 47	Write T3, Custom Data Format (5, 6, or 7 Bits)	1 Parameter
Hex 3B	Set Write Density for Specified Track	2 Parameters
Hex 4F	Set 210 BPI for T1&T3	
Hex 6F	Set 75 BPI for T1&T3	
Hex 4E	Set 210 BPI for T2	
Hex 6E	Set 75 BPI for T2	
Hex 77	Set BPC for T1&T2&T3	3 Parameters
Hex 7B	Set Hi-Co	
Hex 7C	Set Lo-Co	
Erase Commands:		
Hex 5D	Arm to Erase	
Hex 5A	Erase T1	
Hex 5B	Erase T2	
Hex 5C	Erase T3	

6. Sample Program

The following code fragment demonstrates how to encode 7BPC data on track 3.

Initialization (Communications Setup)

```
If MSCComm1.PortOpen = True Then MSCComm1.PortOpen = False
MSCComm1.CommPort = 1
MSCComm1.Settings = "9600,o,7,1"
MSCComm1.PortOpen = True
```

Build Track Record

```
Dim T3 as String
T3 = "ENCODE 7-BIT DATA ON TRACK3"
```

Issue Write Command

```
MSCComm1.Output = "c" & "1"

mStart = Timer
Do While MSCComm1.InBufferCount = 0
    DoEvents
    If Timer - mStart > 1 Then
        MsgBox "Device time out"
        Exit Sub
    End If
Loop

buf = MSCComm1.Input
If buf = "^" Then
    MSCComm1.Output = T3 & Chr(&H4)
    mStart = Timer
    Do While Timer - mStart < 0.5
        DoEvents
    Loop
    buf = MSCComm1.Input
    If buf = "^" Then
        buf = MSCComm1.Input
        buf = MSCComm1.Input
        MSCComm1.Output = "@"
        mStart = Timer
        Do While MSCComm1.Input <> "^"
            DoEvents
            If Timer - mStart > 0.3 Then
                Command1_Click
                Exit Sub
            End If
        Loop
    Do While MSCComm1.Input <> "^"
        DoEvents
    Loop
    MsgBox "O.K."
Else
    MsgBox "Transmit Data Error", vbCritical
End If
Else
    MsgBox "Can't Excute", vbCritical
End If
```

User's Manual

MSE-630A

High/Low Coercivity Tracks 1&2&3
Magstripe Card Encoder



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