

```
// Last used 08-07-20
// Intelligent_EEPROM_Update_V2
//
```

```
protoID=1; // initialize Protocol ID to 1
customVar1.field1=34922.00; // Primary Frequency 1
customVar1.field2=0.20; // Duty Cycle 1
customVar1.field3=7.83; // Secondary Gating Frequency
customVar1.field4=0.50; // Duty Cycle 2
```

```
protoID=2; // initialize Protocol ID to 2
customVar2.field1=34922.00; // Primary Frequency 1
customVar2.field2=0.20; // Duty Cycle 1
customVar2.field3=396.00; // Secondary Gating Frequency
customVar2.field4=0.50; // Duty Cycle 2
```

```
protoID=3; // initialize Protocol ID to 3
customVar3.field1=34922.00; // Primary Frequency 1
customVar3.field2=0.20; // Duty Cycle 1
customVar3.field3=7.83; // Secondary Gating Frequency
customVar3.field4=0.50; // Duty Cycle 2
```

```
protoID=4; // initialize Protocol ID to 4
customVar4.field1=34922.00; // Primary Frequency 1
customVar4.field2=0.20; // Duty Cycle 1
customVar4.field3=417.00; // Secondary Gating Frequency
customVar4.field4=0.50; // Duty Cycle 2
```

```
protoID=5; // initialize Protocol ID to 5
customVar5.field1=34922.00; // Primary Frequency 1
customVar5.field2=0.20; // Duty Cycle 1
customVar5.field3=7.83; // Secondary Gating Frequency
customVar5.field4=0.50; // Duty Cycle 2
```

```
protoID=6; // initialize Protocol ID to 6
customVar6.field1=34922.00; // Primary Frequency 1
customVar6.field2=0.20; // Duty Cycle 1
customVar6.field3=528.00; // Secondary Gating Frequency
customVar6.field4=0.50; // Duty Cycle 2
```

```
protoID=7; // initialize Protocol ID to 7
customVar7.field1=34922.00; // Primary Frequency 1
customVar7.field2=0.20; // Duty Cycle 1
customVar7.field3=7.83; // Secondary Gating Frequency
customVar7.field4=0.50; // Duty Cycle 2
```

```
protoID=8; // initialize Protocol ID to 8
customVar8.field1=34922.00; // Primary Frequency 1
customVar8.field2=0.20; // Duty Cycle 1
customVar8.field3=639.83; // Secondary Gating Frequency
customVar8.field4=0.50; // Duty Cycle 2
```

```
protoID=9; // initialize Protocol ID to 9
customVar9.field1=34922.00; // Primary Frequency 1
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customVar9.field2=0.20;           // Duty Cycle 1
customVar9.field3=7.83;           // Secondary Gating Frequency
customVar9.field4=0.50;           // Duty Cycle 2

protoID=10;                       // initialize Protocol ID to 10
customVar10.field1=34922.00;      // Primary Frequency 1
customVar10.field2=0.20;          // Duty Cycle 1
customVar10.field3=741.00;        // Secondary Gating Frequency
customVar10.field4=0.50;          // Duty Cycle 2

protoID=11;                       // initialize Protocol ID to 11
customVar11.field1=34922.00;      // Primary Frequency 1
customVar11.field2=0.20;          // Duty Cycle 1
customVar11.field3=7.83;          // Secondary Gating Frequency
customVar11.field4=0.50;          // Duty Cycle 2

protoID=12;                       // initialize Protocol ID to 12
customVar12.field1=34922.00;      // Primary Frequency 1
customVar12.field2=0.20;          // Duty Cycle 1
customVar12.field3=852.00;        // Secondary Gating Frequency
customVar12.field4=0.50;          // Duty Cycle 2

protoID=13;                       // initialize Protocol ID to 13
customVar13.field1=34922.00;      // Primary Frequency 1
customVar13.field2=0.20;          // Duty Cycle 1
customVar13.field3=72.00;         // Secondary Gating Frequency
customVar13.field4=0.50;          // Duty Cycle 2

protoID=14;                       // initialize Protocol ID to 14
customVar14.field1=34922.00;      // Primary Frequency 1
customVar14.field2=0.20;          // Duty Cycle 1
customVar14.field3=432.00;        // Secondary Gating Frequency
customVar14.field4=0.50;          // Duty Cycle 2

protoID=15;                       // initialize Protocol ID to 15
customVar15.field1=28000.00;      // Primary Frequency 1
customVar15.field2=0.20;          // Duty Cycle 1
customVar15.field3=432.00;        // Secondary Gating Frequency
customVar15.field4=0.50;          // Duty Cycle 2

protoID=16;                       // initialize Protocol ID to 16
customVar16.field1=28000.00;      // Primary Frequency 1
customVar16.field2=0.20;          // Duty Cycle 1
customVar16.field3=72.00;         // Secondary Gating Frequency
customVar16.field4=0.50;          // Duty Cycle 2

protoID=17;                       // initialize Protocol ID to 17
customVar17.field1=28000.00;      // Primary Frequency 1
customVar17.field2=0.20;          // Duty Cycle 1
customVar17.field3=7.83;          // Secondary Gating Frequency
customVar17.field4=0.50;          // Duty Cycle 2

protoID=18;                       // initialize Protocol ID to 18
customVar18.field1=28000.00;      // Primary Frequency 1

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customVar18.field2=0.20;           // Duty Cycle 1
customVar18.field3=396.00;         // Secondary Gating Frequency
customVar18.field4=0.50;           // Duty Cycle 2

protoID=19;                         // initialize Protocol ID to 19
customVar19.field1=28000.00;       // Primary Frequency 1
customVar19.field2=0.20;           // Duty Cycle 1
customVar19.field3=7.83;           // Secondary Gating Frequency
customVar19.field4=0.50;           // Duty Cycle 2

protoID=20;                         // initialize Protocol ID to 20
customVar20.field1=28000.00;       // Primary Frequency 1
customVar20.field2=0.20;           // Duty Cycle 1
customVar20.field3=417.00;         // Secondary Gating Frequency
customVar20.field4=0.50;           // Duty Cycle 2

protoID=21;                         // initialize Protocol ID to 21
customVar21.field1=28000.00;       // Primary Frequency 1
customVar21.field2=0.20;           // Duty Cycle 1
customVar21.field3=7.83;           // Secondary Gating Frequency
customVar21.field4=0.50;           // Duty Cycle 2

protoID=22;                         // initialize Protocol ID to 22
customVar22.field1=28000.00;       // Primary Frequency 1
customVar22.field2=0.20;           // Duty Cycle 1
customVar22.field3=528.00;         // Secondary Gating Frequency
customVar22.field4=0.50;           // Duty Cycle 2

protoID=23;                         // initialize Protocol ID to 23
customVar23.field1=28000.00;       // Primary Frequency 1
customVar23.field2=0.20;           // Duty Cycle 1
customVar23.field3=7.83;           // Secondary Gating Frequency
customVar23.field4=0.50;           // Duty Cycle 2

protoID=24;                         // initialize Protocol ID to 24
customVar24.field1=28000.00;       // Primary Frequency 1
customVar24.field2=0.20;           // Duty Cycle 1
customVar24.field3=639.83;         // Secondary Gating Frequency
customVar24.field4=0.50;           // Duty Cycle 2

protoID=25;                         // initialize Protocol ID to 25
customVar25.field1=28000.00;       // Primary Frequency 1
customVar25.field2=0.20;           // Duty Cycle 1
customVar25.field3=7.83;           // Secondary Gating Frequency
customVar25.field4=0.50;           // Duty Cycle 2

protoID=26;                         // initialize Protocol ID to 26
customVar26.field1=28000.00;       // Primary Frequency 1
customVar26.field2=0.20;           // Duty Cycle 1
customVar26.field3=741.00;         // Secondary Gating Frequency
customVar26.field4=0.50;           // Duty Cycle 2

protoID=27;                         // initialize Protocol ID to 27
customVar27.field1=28000.00;       // Primary Frequency 1

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customVar27.field2=0.20;           // Duty Cycle 1
customVar27.field3=7.83;           // Secondary Gating Frequency
customVar27.field4=0.50;           // Duty Cycle 2

protoID=28;                         // initialize Protocol ID to 28
customVar28.field1=28000.00;       // Primary Frequency 1
customVar28.field2=0.20;           // Duty Cycle 1
customVar28.field3=852.00;         // Secondary Gating Frequency
customVar28.field4=0.50;           // Duty Cycle 2

protoID=29;                         // initialize Protocol ID to 29
customVar29.field1=28000.00;       // Primary Frequency 1
customVar29.field2=0.20;           // Duty Cycle 1
customVar29.field3=72.00;          // Secondary Gating Frequency
customVar29.field4=0.50;           // Duty Cycle 2

protoID=30;                         // initialize Protocol ID to 30
customVar30.field1=28000.00;       // Primary Frequency 1
customVar30.field2=0.20;           // Duty Cycle 1
customVar30.field3=432.00;         // Secondary Gating Frequency
customVar30.field4=0.50;           // Duty Cycle 2

protoID=31;                         // initialize Protocol ID to 31
customVar31.field1=34922.00;       // Primary Frequency 1
customVar31.field2=0.20;           // Duty Cycle 1
customVar31.field3=432.00;         // Secondary Gating Frequency
customVar31.field4=0.50;           // Duty Cycle 2

protoID=32;                         // initialize Protocol ID to 32
customVar32.field1=34922.00;       // Primary Frequency 1
customVar32.field2=0.20;           // Duty Cycle 1
customVar32.field3=72.00;          // Secondary Gating Frequency
customVar32.field4=0.50;           // Duty Cycle 2

// ***** Fillers to 50 *****

protoID=33;                         // initialize Protocol ID to 33
customVar33.field1=34922.00;       // Primary Frequency 1
customVar33.field2=0.20;           // Duty Cycle 1
customVar33.field3=7.83;           // Secondary Gating Frequency
customVar33.field4=0.50;           // Duty Cycle 2

protoID=34;                         // initialize Protocol ID to 34
customVar34.field1=34922.00;       // Primary Frequency 1
customVar34.field2=0.20;           // Duty Cycle 1
customVar34.field3=396.00;         // Secondary Gating Frequency
customVar34.field4=0.50;           // Duty Cycle 2

protoID=35;                         // initialize Protocol ID to 35
customVar35.field1=34922.00;       // Primary Frequency 1
customVar35.field2=0.20;           // Duty Cycle 1
customVar35.field3=7.83;           // Secondary Gating Frequency
customVar35.field4=0.50;           // Duty Cycle 2

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protoID=36; // initialize Protocol ID to 36
customVar36.field1=34922.00; // Primary Frequency 1
customVar36.field2=0.20; // Duty Cycle 1
customVar36.field3=417.00; // Secondary Gating Frequency
customVar36.field4=0.50; // Duty Cycle 2

protoID=37; // initialize Protocol ID to 37
customVar37.field1=34922.00; // Primary Frequency 1
customVar37.field2=0.20; // Duty Cycle 1
customVar37.field3=7.83; // Secondary Gating Frequency
customVar37.field4=0.50; // Duty Cycle 2

protoID=38; // initialize Protocol ID to 38
customVar38.field1=34922.00; // Primary Frequency 1
customVar38.field2=0.20; // Duty Cycle 1
customVar38.field3=528.00; // Secondary Gating Frequency
customVar38.field4=0.50; // Duty Cycle 2

protoID=39; // initialize Protocol ID to 39
customVar39.field1=34922.00; // Primary Frequency 1
customVar39.field2=0.20; // Duty Cycle 1
customVar39.field3=7.83; // Secondary Gating Frequency
customVar39.field4=0.50; // Duty Cycle 2

protoID=40; // initialize Protocol ID to 40
customVar40.field1=34922.00; // Primary Frequency 1
customVar40.field2=0.20; // Duty Cycle 1
customVar40.field3=639.83; // Secondary Gating Frequency
customVar40.field4=0.50; // Duty Cycle 2
EEPROM.put(eeAddress,customVar40); // Update EProm

protoID=41; // initialize Protocol ID to 41
customVar41.field1=34922.00; // Primary Frequency 1
customVar41.field2=0.20; // Duty Cycle 1
customVar41.field3=7.83; // Secondary Gating Frequency
customVar41.field4=0.50; // Duty Cycle 2

protoID=42; // initialize Protocol ID to 42
customVar42.field1=34922.00; // Primary Frequency 1
customVar42.field2=0.20; // Duty Cycle 1
customVar42.field3=741.00; // Secondary Gating Frequency
customVar42.field4=0.50; // Duty Cycle 2

protoID=43; // initialize Protocol ID to 43
customVar43.field1=34922.00; // Primary Frequency 1
customVar43.field2=0.20; // Duty Cycle 1
customVar43.field3=7.83; // Secondary Gating Frequency
customVar43.field4=0.50; // Duty Cycle 2

protoID=44; // initialize Protocol ID to 44
customVar44.field1=34922.00; // Primary Frequency 1
customVar44.field2=0.20; // Duty Cycle 1
customVar44.field3=852.00; // Secondary Gating Frequency
customVar44.field4=0.50; // Duty Cycle 2

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protoID=45; // initialize Protocol ID to 45
customVar45.field1=34922.00; // Primary Frequency 1
customVar45.field2=0.20; // Duty Cycle 1
customVar45.field3=7.83; // Secondary Gating Frequency
customVar45.field4=0.50; // Duty Cycle 2

protoID=46; // initialize Protocol ID to 46
customVar46.field1=34922.00; // Primary Frequency 1
customVar46.field2=0.20; // Duty Cycle 1
customVar46.field3=396.00; // Secondary Gating Frequency
customVar46.field4=0.50; // Duty Cycle 2

protoID=47; // initialize Protocol ID to 47
customVar47.field1=34922.00; // Primary Frequency 1
customVar47.field2=0.20; // Duty Cycle 1
customVar47.field3=7.83; // Secondary Gating Frequency
customVar47.field4=0.50; // Duty Cycle 2

protoID=48; // initialize Protocol ID to 48
customVar48.field1=34922.00; // Primary Frequency 1
customVar48.field2=0.20; // Duty Cycle 1
customVar48.field3=417.00; // Secondary Gating Frequency
customVar48.field4=0.50; // Duty Cycle 2

protoID=49; // initialize Protocol ID to 49
customVar49.field1=34922.00; // Primary Frequency 1
customVar49.field2=0.20; // Duty Cycle 1
customVar49.field3=7.83; // Secondary Gating Frequency
customVar49.field4=0.50; // Duty Cycle 2

protoID=50; // initialize Protocol ID to 50
customVar50.field1=34922.00; // Primary Frequency 1
customVar50.field2=0.20; // Duty Cycle 1
customVar50.field3=528.00; // Secondary Gating Frequency
customVar50.field4=0.50; // Duty Cycle 2

protoID=1; // initialize Protocol ID to 1
eeAddress=highEPromAd; // define starting eeprom address
EPromObject2 customVarHigh; // Variables to store custom
objects in EEPROM
customVarHigh.field0=protoID; // set the default last_protoID to
present protoID
customVarHigh.field1=mode; // set to default SIMPLE Mode 1
customVarHigh.field2=defaultFreqTime; // set to run frequencies for
default 3 minutes
customVarHigh.field3=defaultRunTime; // set to 30 minutes default
program Run time
customVarHigh.field4=startFreq; // set a default Start Frequency
Group ID
customVarHigh.field5=stopFreq; // set a default Stop Frequency
Group ID
customVarHigh.field6=startSweep; // set a default Start Sweep Group
ID

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```
    customVarHigh.field7=stopSweep;          // set a default Stop Sweep Group
ID
    EEPROM.put(eeAddress,customVarHigh); // Update EProm

    // turn the LED on when we're done
    digitalWrite(13, HIGH);
}

void loop() {
    /** Empty loop. **/
}
```