Sample CRC Calculating Algorithm with C#

RS232 / RS485 ASCII output telegram :

8 character digit + 16 bit crc High Byte + 16 bit crc Low Byte + LF(0X0A)

CRC Algorithm
CRC-16/MAXIM

```
public static ushort Compute_CRC16_Simple(byte[] bytes)
{
   const ushort generator = 0x8005; /* divisor is 16bit */
   ushort crc = 0; /* CRC value is 16bit */

   foreach (byte b in bytes)
   {
      crc ^= (ushort(b << 8); /* move byte into MSB of 16bit CRC */

      for (int i = 0; i < 8; i++)
      {
         if ((crc & 0x8000) != 0) /* test for MSB = bit 15 */
         {
            crc = (ushort((crc << 1) ^ generator);
         }
         else
         {
            crc <<= 1;
         }
      }
   }

   return crc;
}
```
