



Optical Reader (For use with IntelliChlor Chlorine Generator)



User's Guide

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Related IntelliTouch Manuals

IntelliChlor Chlorine Generator User's Guide (P/N 520589)

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Introduction

The IntelliChlor diagnostic optical reader is a wireless optical reader device used to retrieve stored operating data from the IntelliChlor chlorine generator to a PC or PDA.

Use this device to determine if parts need to be replaced or if the IntelliChlor cell has performed to specification. The retrieved diagnostic information shows how the system has been operated. It indicates the power setting and hours of use and other information:

- Total cell hours (total hours the cell produced chlorine)
- Number of Reversals
- Reverse setting
- Production setting
- Salt Setting

The retrieved data is transmitted to the PC from the optical reader using a standard Serial RS-232C connector or USB connection. The optical reader operates with Windows XP and 2000 using Tera Term software; a terminal program included with the IntelliChlor optical reader kit.

NOTES

- While holding the optical reader over the LED, press and hold the MORE button for 3 seconds until the “percentage” LED's flash quickly. Data is now being transmitted out through the LOW SALT light and to the PC. You should see the following text on the PC screen.

```
*****
SYSTEM STATUS IC20                SERIAL 000425
*****
FIRMWARE IC-V1.3                MFG DATE    000000
TOTAL CELL HRS 00616
HRS EACH OUTPUT
  20% 00016:47                80%    00520:50
  40% 00028:31                100%   00018:29
  60% 00028:54                BOOST  00000:00
REVERSE CYCLE 4 HRS            # REVERSES 0124
SALT    2500-2900ppm          CALIBRATED
WATER TEMP    80F            CALIBRATED 80F
CELL VOLTS    32.6V
HRS HI SALT   00000:00        HRS LOW TEMP  00000:00
HRS GOOD SALT 00232:09        HRS FLASH CELL 00614:06
HRS ADD SALT  00384:22        HRS NO FLOW   00032:18
HRS LOW SALT  00002:36
SELF TEST PASSED
```

- If there is no data from the IntelliChlor unit displayed on the PC screen, see step 5 in “Setting up Tera Term” on page 3, and select another COM port.
- After the words **SELF TEST PASSED** are displayed, the IntelliChlor will return to normal operating LED settings.

Connecting the Optical Reader to the PC

Using a Serial RS-232 DB9 connector on the PC

- Plug the optical reader into a Serial DB9 connector on the PC.

Using a USB port connection on the PC

If the PC does not have an RS-232 DB9 connector you can use a USB to Serial adapter. This allows you to plug the optical reader into the USB port on the PC.

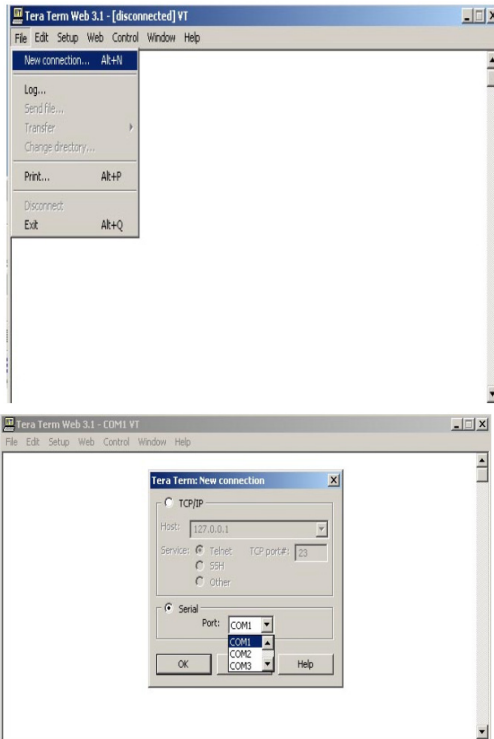
To connect the optical reader to the USB port:

- Install the USB Serial adapter driver that comes with the adapter.
- Plug the optical reader connector into the Serial connector of the USB Serial adapter.
- Plug USB connector into the USB port on the PC. Allow the driver to install into Windows.

Setting up Tera Term

To setup Tera Term:

1. Insert the IntelliChlor CD in your CD-ROM drive and copy the contents of the CD to your PC's hard drive.
2. Plug the optical reader into the Serial port or USB adapter.
3. Double-click **ttermpro.exe** to launch Tera Term.
4. Tera Term will automatically be connected to COM1.
5. **To Change the COM Port:** If the optical reader does not display data to the PC screen, the optical reader may be on a different COM port, and will need to be changed. If using a USB port, the PC will assign one of the COM ports to the USB port. Try each COM port until a successful connection is made.
6. To change the COM port, click **File > Disconnect**. Click **File >** again, then **New Connection**. Click the pull down menu to choose a different COM port, then click **OK**. You are now connected to this port.



Using the Optical Reader to Retrieving Data

To receive data from the IntelliChlor cell:

1. Remove the tinted slide cover from the unit.
2. Hold the optical reader straight and steady over the LOW SALT LED. Ensure that the tip of the optical reader is level with the top surface of the control panel. If the cell is in direct sunlight, shade the unit before using the optical reader.

