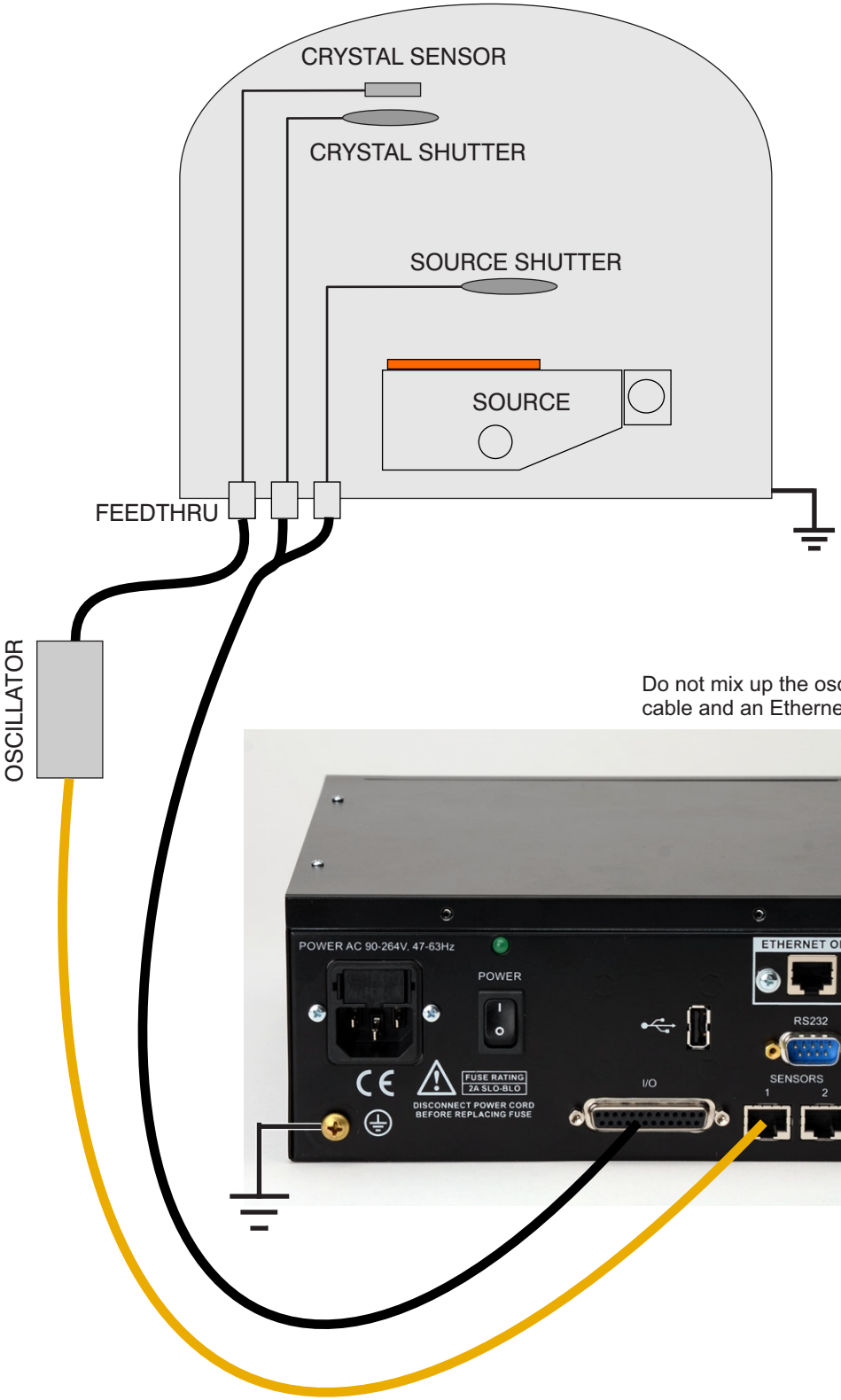
TELEMARK Model 851 Quick Setup

TYPICAL SYSTEM CONFIGURATION



Do not mix up the oscillator RJ45 cable and an Ethernet RJ45 cable

1801 SE Commerce Avenue
Battle Ground, WA 98604, USA

Tel 360-723-5360
Fax 360-723-5368

sales@telemark.com
www.telemark.com

MADE IN USA

TELEMARK Model 851 Quick Setup

Notes:
- The full manual is found on the included USB drive in pdf form.
- The 851 boots up to the splash screen 30 seconds, and the configuration screen in under 2 minutes.
- The 851 is shipped with crystal simulation turned off, if crystal sensor one is not connected then the crystal error will sound when the 851 is turned on.
- The 851 is shipped with the 6MHz setting and screen saver set to 15 minutes.

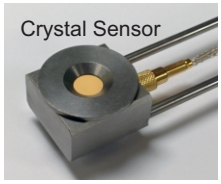
1 INSTALL DEPOSITION CONTROLLER

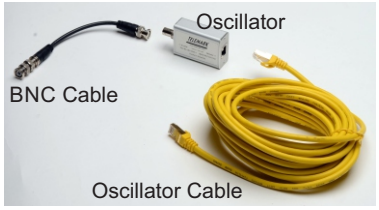
The 851 is designed to be installed in a half 19 inch rack or on a table top. Ears for 19 inch rack installation are provided. Feet are provided for tilt the unit up on a desk top.

Required power: 90-264 VAC, 47-63 Hz
The 851 should be properly grounded, see manual for more details.

2 INSTALL CRYSTAL SENSOR AND OSCILLATOR

The 851 is designed to be used with:
- 5 or 6 MHz crystals
- Internal vacuum coaxial cable, 30 inches long (from crystal sensor to feed through)
- External BNC cable, 6 inches long (from feed through to oscillator)
- Telemark oscillator (other oscillators will not work)
- Shielded RJ45 cable, to 25 feet long (from oscillator to 851)





1801 SE Commerce Avenue
Battle Ground, WA 98604, USA

Tel 360-723-5360
Fax 360-723-5368

sales@telemark.com
www.telemark.com

MADE IN USA

Model 851 Quick Setup

Full manual is found on the included USB drive in pdf form

3

CONFIGURING THE 851 SYSTEM, see the 851 manual for more details

1. **Setup – Display:** Parameters affecting the display
2. **Setup – Utility:** Miscellaneous parameters such as, crystal frequency, sound volumes, date and time
3. **Setup – Shutter:** shutter type
4. **Setup – Inputs/Outputs:** The monitor has four inputs and four outputs that are pre-defined. The only user changeable settings are to set inputs True to either High or Low and the input to be Active or Passive operation.

- Passive input is TTL level inputs activated by a short across input pins.
- Active input is activated by 12 to 24 volts DC across the input pins.

4

DEFINE MATERIALS, see the 851 manual for more details

Parameters affecting the deposition of each material: density, impedance, sensor#, etc.

1801 SE Commerce Avenue
Battle Ground, WA 98604, USA

Tel 360-723-5360
Fax 360-723-5368

sales@telemark.com
www.telemark.com

MADE IN USA

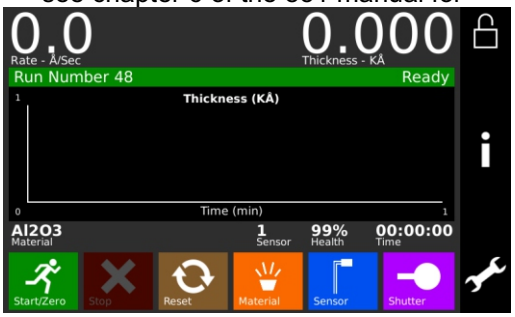
TELEMARK Model 851 Quick Setup

Full manual is found on the included USB drive in pdf form

5

OPERATING THE 851 SYSTEM,

see chapter 6 of the 851 manual for



START/ZERO BUTTON

The Start button zeros the thickness, starts a material and starts the timer. **When the button is surrounded by a white box it indicates the monitor is running.**

STOP BUTTON

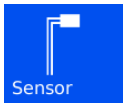
The Stop button puts the 851 in Run Complete mode.

RESET BUTTON

The Reset button is used to clear the monitor from “crystal fail” mode and put it into the Ready mode.

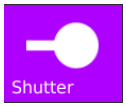
MATERIAL BUTTON

The Material button brings up the material selection list.



SENSOR BUTTON

This button switches the sensor input between 1 and 2. It also switches the sensor output relay if a dual sensor is configured.



SHUTTER BUTTON

This button is used to manually open and close the source shutter. **A white outline around this button indicates that the active source shutter relay is closed** (If any shutter is configured). When the monitor is in the Ready mode, this button may be selected to open or close the shutter.

STATUS BUTTON

This button is used to cycle through the different status screens. The display settings allow the six different status screens to be active or not. Refer to chapter 6 for a detailed description of these status screens.

PROGRAM BUTTON

Pressing the programming button will bring up the main programming screen.

6

ADDITIONAL NOTES:

The USB drive supplied with the 851 is for backing up and restoring materials and all the system files. It is also useful for data logging. It also includes a 851 pdf manual and VNC software and other Telemark information.

The 851 can be viewed and controlled remotely via Ethernet and a VNC client (Remote Desktop),see chapter 4. The network needs to have a DHCP server to automatically supply the 851 with an IP address.

See chapter 8 for details about control of an 861 from computer/PLC using the RS-232 serial interface. The interface is set at 9600 Baud, 8 Bit data, No Parity, 1 Stop bit

1801 SE Commerce Avenue
Battle Ground, WA 98604, USA

Tel 360-723-5360
Fax 360-723-5368

sales@telemark.com
www.telemark.com

MADE IN USA