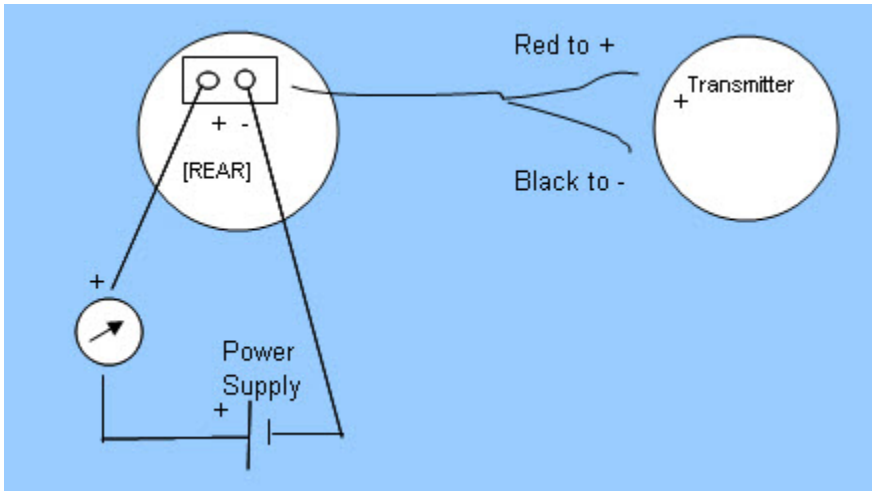
3/14/2013

Procedure to configure an LCD-H20 & H11X Display

Print a copy of the LCD-H20 User Instructions for reference

►Do NOT apply voltage directly to the DISPLAY! ◄
Limit the current with a loop transmitter (e.g. IPAQ-L), even without a sensor is OK. It will max out at about 23mA which is OK.

It is recommended that you have a constant current source to both power the display (required) during the set up and to verify the correct interpretation of the 4/20mA loop current. An IPAQ H/L or IPAQ-H+/L+ are ideal for this purpose. Any of these devices can be put in Instrument Calibration Mode [in Miscellaneous\Instrument Calibration]. The sensor, if connected, is ignored and a precise current is generated in the 4/20mA loop.
It is also suggested that a multimeter capable of 0-50mA range or lower be in the loop as further verification of the true mA.



VIEWS:


INOR
dP
°C
11/18/2009


INOR
2Er0
°C
11/18/2009


INOR
SPHn
°C
11/18/2009


INOR
°C
11/18/2009


INOR
°C


INOR
°C


INOR
°C
11/18/2009

STEPS:

- Apply between 4 and 20mA
- Press & hold F for ~5 sec; see **dP** then release
- Press F again & hold until you see 000.0 (This is the default 1 place decimal pt)
- **You are now in the Decimal Point Menu**
  - Use ▲ or ▼ to move the decimal point (Hold briefly to get it to move)
  - When in correct position, Press & hold F until **dP** appears, then release
  - Now move to **ZERO** [2Er0] by pressing ▲ (sometimes need to hold briefly)
  - With **ZERO** Showing, press and hold F briefly until digits show up- then release
- **You are in the ZERO SET POINT menu**
  - Use ▲ or ▼ to move the actual numbers for Zero to what you want.
    - Holding the button for a while accelerates the movement
    - Release when close and click button until you have the Zero Point
  - Press and hold F until **ZERO** shows up again; then release
  - Now move to **SPAN** [SPAn] by pressing ▲ (sometimes need to hold briefly)
  - With **SPAN** showing, press F briefly until digits appear.
- **You are in the SPAN SET POINT menu** [This is the top end of range- not true span]
  - Use ▲ or ▼ to move the actual numbers for **SPAN** to what you want.
    - Holding the button for a while accelerates the movement
  - Release when close and click button until you have the SPAN set as desired
  - Press & hold F until **SPAN** appears
- At this point you can remove power and the settings are stored or go into –
- **Li** – to change the default current limits
- **FiLt** – to change and smooth the response
- **riS** – to change the resolution of the scaling

Verify your setting. The IPAQ-H or –L will do a stepped current output and is set in Instrument Calibration (in Miscellaneous). Engage it to see what 4mA in the loop gives for a reading. It will step to 12mA and hold. This is 50% of your scaling on the display. Next it will jump to 20 mA to show full scale reading on the display.

The IPAQ-H+ or L+ will do the same and it will also allow a specific current to be held.

TO RECALIBRATE THE UNIT (Not a standard procedure)

VIEWS:

- Apply an accurate 4.00mA current
- Press & Hold ▲ ▼ at the same time until you see **C 4** then release
- Press **F** until you see **CAL**; continue to hold until you see 0.0 then release
- Press & Hold ▲ ▼ at the same time until you see **C 4** then release
- Press ▲ to see **C 20**
- Apply 20.00mA to the loop
- Press **F** until you see **CAL**; continue to hold until you see 100.0 then release