



# Empire Instrument Company

646 South Main Street #132, Cedar City, UT 84720  
800-682-0177 toll-free 888-506-3827 toll-free fax  
[www.empireinstrument.com](http://www.empireinstrument.com)

**To:** Fuji PHE recorder user

**From:** Rich Goulet [rich@empireinstrument.com](mailto:rich@empireinstrument.com)

**Date:** December 20, 2011

**Subject:** Programming Fuji Strip Chart Recorder, 0-14 pH

---

There are three steps to re-program or set-up a channel:

- 1) Measurement Range, program for 4-20 madc (same as 1-5 vdc using 250 ohm resistor)
- 2) Industrial Value Scale, the engineering units which equal 4-20 madc, ie 0-14 pH
- 3) Recording Range, what part of the Industrial Values to be printed on the chart. Most common for 0-14 pH is the full range of 0-14.

Below is a guide to set-up channel 1 as a 4-20 madc input which equals 0-14 pH and to print on the chart the range of 0-14 pH.

Page B-5

Press Display for 3 or more seconds	0 LoC
Press Select Key and the Up key for +3 seconds	5 bAkLS
Press Select key twice	1 Pu.SF
Press Select Key and the Up key for +3 seconds	1 AJ 12
Press Up key until	7 AJ 12
Press Select Key and the Up key for +3 seconds	1 5v

Page B-11 - B-12

Press Up key until	1 5v S
Press Enter	L 0.000
Press Up Key until	L 1.000 (use Up to get this value)
Enter	H 5.000
Enter	Pn7 1
Enter	0000.0
Enter	0014.0
Enter	
Select	1 rng
Enter	0000.0
Enter	0014.0
Enter	

Page B-16

Select		1 U0 56	
Enter	(Create p of pH)	1 U0 70	"
Enter	(create H of pH)	1 U1 48	"
Enter	Finished, Reset power to see changes take effect		