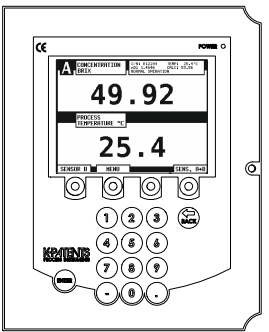
Pocket Guide

Indicating Transmitter
Operating and configuring displays

DTR



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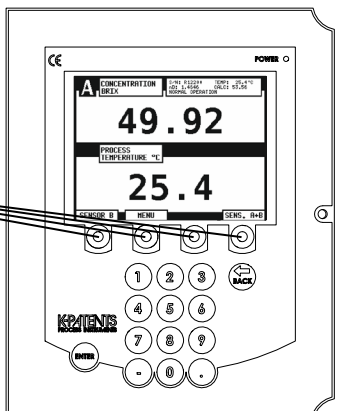
IM-EN-DTR-PG-B

Keyboard functions

Note. The display is *not* a touch screen.

Please use the numbers, ENTER, BACK and the four soft keys below the display.

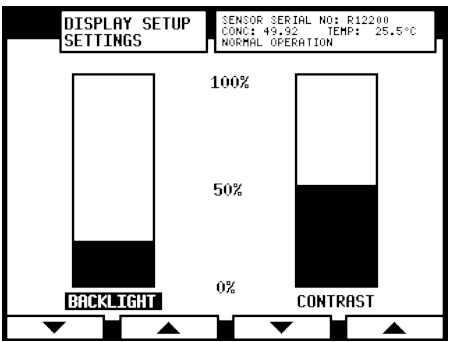


Changing display language

MENU → 4 DISPLAY SETUP
→ 5 DISPLAY LANGUAGE

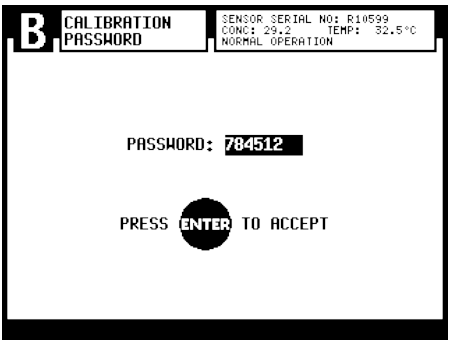
Display backlight and contrast

MENU → 4 DISPLAY SETUP → 2 DISPLAY BACKLIGHT & CONTRAST



Password

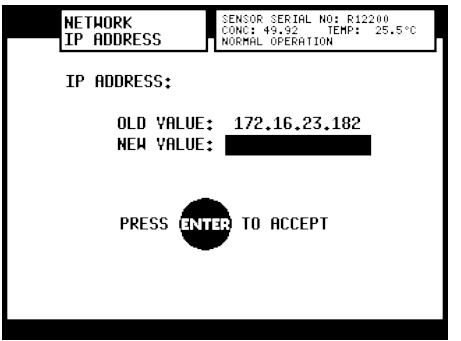
It may be necessary to enter a password before proceeding to the Calibration menu. The password is **784512**.



Changing IP address

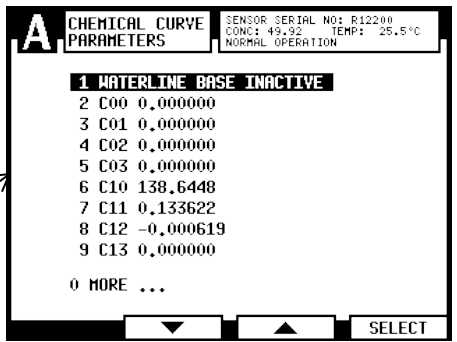
MENU → 5 CALIBRATION
→ 2 OUTPUTS
→ 8 NETWORK

Type the new IP address and press ENTER.



Checking chemical curve parameters

MENU → 5 CALIBRATION
→ 1 CHEMICAL & FIELD PARAMETERS
→ 1 CHEMICAL CURVE PARAMETERS



Delivery Data Sheet (DDS)

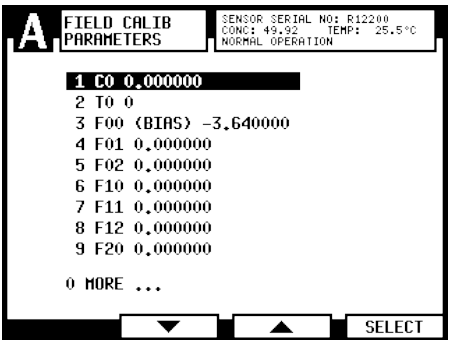
CHECK

If the values don't match, please contact info@kpatents.com

Entering field calibration parameters

MENU → 5 CALIBRATION → 1 CHEMICAL & FIELD PARAMETERS → 2 FIELD CALIBRATION PARAMETERS

See the user manual section 6.6.3 on how to obtain the field calibration parameters.



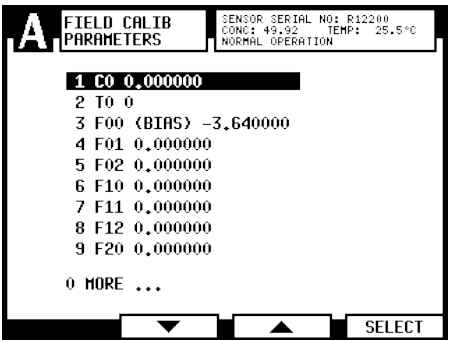
Direct BIAS adjustment

MENU → 5 CALIBRATION → 1 CHEMICAL & FIELD PARAMETERS → 2 FIELD CALIBRATION PARAMETERS

For example:

LAB	49.92 %
CALC	53.56 %
F00 (BIAS)	-3.64 %

For CALC press MENU → 3 SENSOR STATUS → FIELD SAMPLE



Configuring mA outputs

MENU → 5 CALIBRATION → 2 OUTPUTS → 7 mA OUTPUTS → 1 mA OUTPUT 1 / 2 mA OUTPUT 2

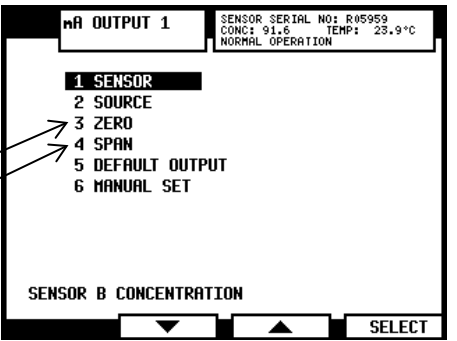
For example:

4 mA – 20 mA

^
||
v

10 % - 40 %

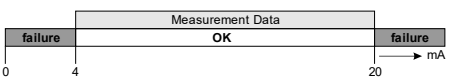
=> zero 10, span 30

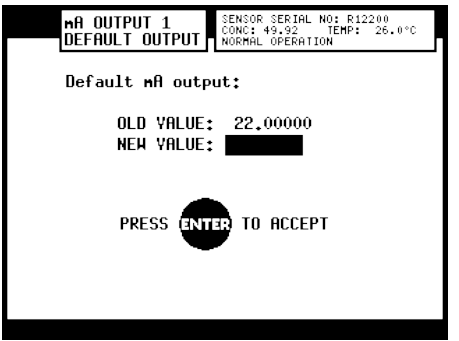


Default mA output

MENU → 5 CALIBRATION → 2 OUTPUTS → 7 mA OUTPUTS → 1 mA OUTPUT 1 / 2 mA OUTPUT 2 → 5 DEFAULT OUTPUT

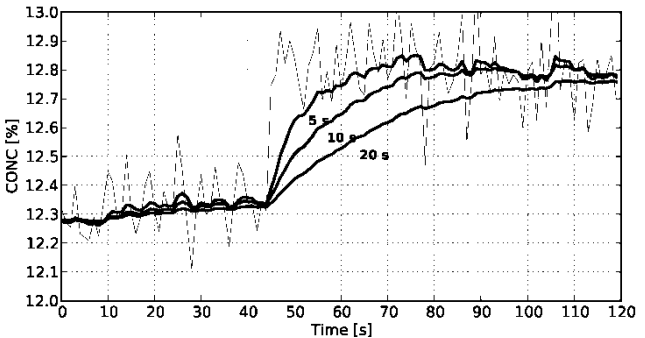
Default output sets a mA default output value that the instrument returns to in certain malfunction situations.





Damping time

MENU → 5 CALIBRATION → 2 OUTPUTS → 4 DAMPING TIME



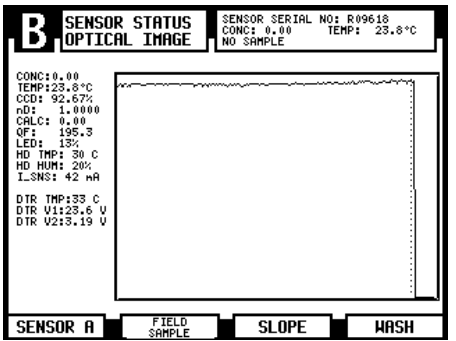
Damping time:
5-20 s

Factory setting: 5 s

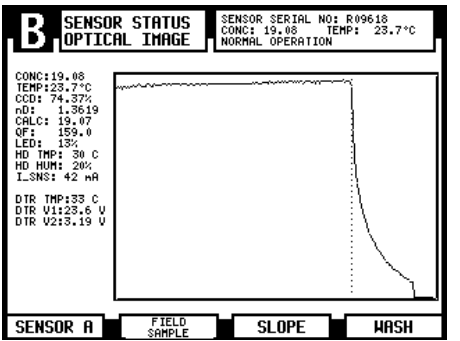
Damping time is the time it takes for the concentration measurement to reach half of its final value.

Checking optical image

MENU → 3 SENSOR STATUS



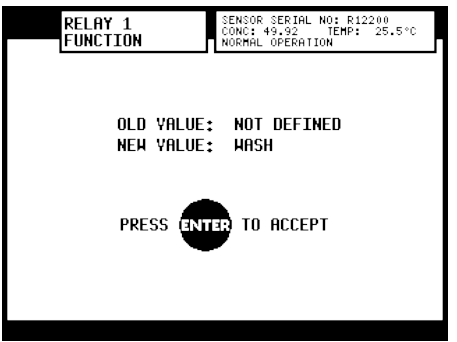
Empty pipe



Normal conditions

Configuring prism wash

MENU → 5 CALIBRATION → 3 RELAYS → 1 RELAY 1 / 2 RELAY 2 → 1 SENSOR → 1 SENSOR A / 2 SENSOR B → 2 FUNCTION → 7 WASH



Setting prism wash parameters

MENU → 5 CALIBRATION → 4 PRISM WASH → 2 WASH TIME / 3 RECOVERY TIME / 4 WASH INTERVAL

Factory default values:

Wash time: 3 s
Recovery time: 20 s
Wash interval: 20 min

Wash medium parameters for integral wash nozzles in PR-23-AP/GP					
	Minimum *above process pressure*	**Maximum** *above process pressure*	**Wash time**	**Recovery**	**Interval**
Steam (SN)	2 bar (30 psi)	4 bar (60 psi)	3 s	20-30 s	20-30 min
Water (WN)	2 bar (30 psi)	4 bar (60 psi)	10 s	20-30 s	10-20 min
High pressure water (WP)	15 bar (220 psi)	40 bar (600 psi)	10 s	20-30 s	10-20 min

Wash medium parameters for flow cell wash nozzle AFC					
	Minimum *above process pressure*	**Maximum** *above process pressure*	**Wash time**	**Recovery**	**Interval**
Steam (SN)	3 bar (45 psi)	6 bar (90 psi)	3-5 s	20-30 s	20-30 min
Water (WN)	3 bar (45 psi)	6 bar (90 psi)	10-15 s	20-30 s	10-20 min
High pressure water (WP)	25 bar (350 psi)	35 bar (500 psi)	10-15 s	20-30 s	10-20 min

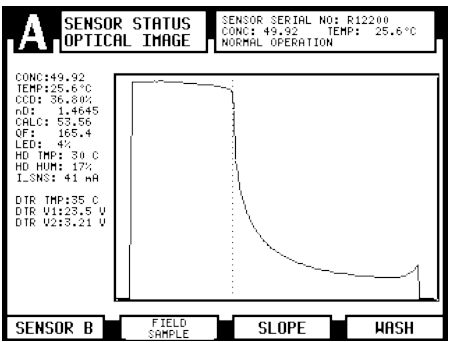
Wash medium parameters for Safe-Drive Isolation valve nozzle SDI and SDI2						
	CONC % value	**Minimum** *above process pressure*	**Maximum** *above process pressure*	**Wash time**	**Recovery**	**Interval**
Steam (SN)	10-30 %	2 bar (30 psi)	4 bar (60 psi)	2-3 s	20 s	120-360 min
	30-60 %	3 bar (45 psi)	6 bar (90 psi)	3 s	20 s	20-60 min
	60-90 %	4 bar (60 psi)	8 bar (120 psi)	3-5 s	20 s	15-25 min
High pressure water (WP)		25 bar (350 psi)	50 bar (725 psi)	10-15 s	20-30 s	5-20 min

Testing prism wash

MENU → 3 SENSOR STATUS → WASH

Indicators of successful wash:

1. TEMP going up during wash
2. nD changing during wash
3. Optical image changing during wash



Optical image during wash

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