

Hardness-Sense analyzer

ON-LINE monitor for water hardness (with display of water hardness)

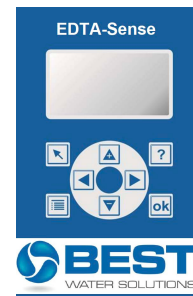
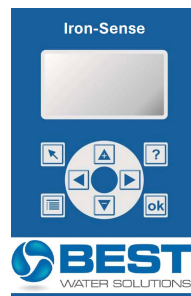


On-line monitor with microprocessor control for water hardness analysis.

The Hardness-Sense is a new economic range of analyzers.

At the moment there are four application available:

- Total Hardness
- Carbonate Hardness
- Iron or
- EDTA



Features:

- colorimetric with graphic display
- all basic function for optimal operation
- no calibration necessary
- analysis start: manually / time controlled / volumetric
- 1 x digital input
- 2 x digital output
- 4 output relays: maximum value one, minimum value two (or minimum value and maximum value), water cooler, alarm indicator, functional error (2 output relays on IQ version)
- 1 output 0(4)-20mA: water hardness
- 1 output CAN BUS interface: functional data and measuring value (on professional version only),
- 1 output/input SD: update and memorization of results
- 2 input: STOP analysis, START analysis, water meter, flow meter (1 input on IQ version)
- optional protective cabinet Ritall, pressure reducer, filter and/or lock for enclosure available

Technical data ABI analyzer

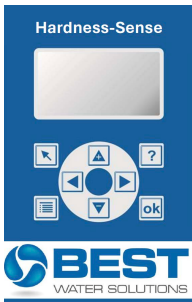
Power connection:	85 – 264V / 47 - 63Hz or 24 VDC
Power consumption for analyzer:	25VA
Degree of protection:	IP 54
Weight:	2,5 kg
Dimensions (WxHxD):	300 x 300 x 190 mm
Contents of indicator flask:	500 ml, which is sufficient for aprox. 10,000 analyses
Inputs:	relais: quantity 2, contact rating 18V 12mA, functions: stop analysis, start analysis, water meter or flow meter quantity 4, contact rating 250V 4A (number of inputs depends on version)
Relay outputs:	Functions: alarm hard water (first value), alarm hard water (second value), functional error, analysis
Other outputs:	1 x 0(4) – 20mA: for measuring value 1 x CAN BUS: functional data and measuring value (professional version) 1 x SD: update and memorization of results
Water Connections:	Feed 6-7 mm ID (1/4"), 0,2 – 6 bar Drain 6-7 mm ID (1/4"), not under pressure (open funnel)
Ambient temperature:	0 – 45°C
Water temperature:	5 – 40 °C
Operating pressure:	0.2 – 6 bar (with optional pressure reducer max. 8 bars)



Available indicators, (always 500ml content):

Art	Type	Measuring range					
		°f	°dH	°e	ppm	mg/l	mmol/l
200852	500S/500	0,022-0,21	0,012-0,12	0,02-0,15	0,22-2,14	0,22-2,14	0,002-0,021
200855	500/500	0,04-0,36	0,02-0,2	0,03-0,25	0,36-3,56	0,36-3,56	0,04-0,036
200860	501/500	0,05-0,54	0,03-0,3°	0,04-0,38	0,53-5,34	0,53-5,34	0,005-0,0531
200862	502/500	0,11-1,07	0,06-0,6	0,075-0,75	1,067-10,7	1,067-10,7	0,011-0,107
200863	503/500	0,16-1,61	0,09-0,9	0,11-113	1,60-16,02	1,60-16,02	0,02-0,16
200865	505/500	0,27-2,68	0,15-1,5	0,19-1,88	2,67-26,70	2,67-26,70	0,03-0,2
200870	510/500	0,54-5,36	0,3-3,0	0,38-3,76	5,34-53,4	5,34-53,4	0,0534-0,534
200875	520/500	1,07-10,71	0,6-6,0	0,8-7,5	10,7-106,8	10,7-106,8	0,107-1,070
200876	530/500	1,61-16,07	0,9 - 9,0	1,13-11,28	16,02-160,2	16,02-160,2	0,160-1,605
200878	550/500	2,68-26,79	1,5-15	1,9-18,8	26,7-267,00	26,7-267,00	0,27-2,67
200880	600/500*	5,36-53,57	3,0-30	3,76-37,59	53,4-534	53,4-534	0,53-5,3
Carbonate hardness							
200887	710/500	0,54-5,36	0,3-3,0	0,7-3,8	5,34-53,4	5,34-53,4	0,107-1,071
200889	715/500	0,80-8,04	0,45-4,5	0,56-5,64	8,01-80,10	8,01-80,10	0,161-1,607
200890	720/500	1,07-10,71	0,6-6,0	0,8-7,5	10,68-106,8	10,68-106,8	0,214-2,143
200891	730/500	1,61-16,07	0,9-9,0	1,1-11,3	16,02-160,2	16,02-160,2	0,321-3,214

(*) need for on-site calibration

Hardness-Sense mounted in a box (indicator excluded from delivery)		Professional version 85-264 V: 200 151 24 VDC: 200 156
		IQ version 85-264 V: 200 141 24 VDC: 200 143
Hardness Sense mounted on a plate (indicator excluded from delivery)		Professional version 85-264 V: 200 150 24 VDC: 200 155
		IQ version 85-264 V: 200 140 24 VDC: 200 142
Accessories (not necessary for operation):		
Cleaning set	For road transport For air transport	200 013 200 013S
Prefilter	Filter 100um (6mm connection)	200 175
Maintenance set	Annual maintenance set	111 906