



**Universal Temperature
Limit, Boiler Reset and
Low Water Cut-Off**



**Universal Temperature
Limit and
Low Water Cut-Off**



**Low Water Cut-Offs,
Flow Switches and
Liquid Level Controls**



**Low Water Cut-Offs
for Steam Boilers**



**Water Feeders
for Steam Boilers**

PARTS LIST

EFFECTIVE JULY 1, 2017

Toll Free Order Desk
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**HYDROLEVEL
COMPANY**

126 BAILEY ROAD, NORTH HAVEN, CONNECTICUT 06473
www.hydrolevel.com

MODEL NUMBER	VOLTAGE	DESCRIPTION	APPLI-CATION*	PART NO.
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HYDROSTAT – TEMPERATURE LIMIT & LOW WATER CUT-OFF

3150 For Oil Boilers	120VAC	Cold Start or Tankless Coil Operation. • Adjustable Low Temp: OFF or 110°F to 200°F. • Adjustable High Temp: 100°F to 220°F. • Adjustable Differentials: 10°F to 30°F. Suitable for mounting on existing immersion well. NOTE: Hydrolevel Electro-Well™ required for low water cut-off operation (see HydroStat Accessories on page 5).	1	48-3150
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FUEL SMART HYDROSTAT – TEMPERATURE LIMIT, BOILER RESET & LOW WATER CUT-OFF

3200-Plus For Gas Boilers	120VAC (24VAC output)	Cold Start or Tankless Coil Operation. • Adjustable Low Temp: OFF or 110°F to 200°F. • Adjustable High Temp: 100°F to 220°F. • Automatic Differentials. • Adjustable Economy Settings: Off, Low, 1, 2, 3, 4, or 5 Zone, High. • Outdoor Reset Ready (see Accessories below). Suitable for mounting on existing immersion well. NOTE: Hydrolevel Electro-Well™ required for low water cut-off operation (see HydroStat Accessories on page 5).	1	48-3200
3250-Plus For Oil Boilers	120VAC			48-3250
3000 For Gas Boilers	24VAC			48-3000
3000-190 For Gas Boilers	24VAC			48-3001



Model 3200-Plus includes 24 volt 30VA transformer for burner circuit and vent damper.

HydroStat Universal Replacement – Cross Reference Table

Upgrading existing installations with HydroStat or Fuel Smart HydroStat

3200-Plus – Replaces L8124E, L8148E

3150 & 3250-Plus – Replaces L7124A, L7124C, L7148A, L7224A, L7224C, L7224U, L7248A, L7248C, L8124A, L8124C, L8148A, L8148C

3000 – Replaces L4006A, L4080B

SEE HYDROSTAT ACCESSORIES – PAGE 5

* APPLICATION CHART

IMPORTANT: The application information on this schedule provides a general guideline for selecting Hydrolevel controls. We recommend that you refer to your local and state codes prior to purchasing or installing any limit control.

- 1** Residential / Commercial Hot Water Boiler (160PSI)
- 2** Residential / Commercial Steam Boiler (15PSI)
- 3** Commercial / Industrial Hot Water Boiler (250PSI)
- 4** Commercial / Industrial Steam Boiler – Primary Control (250PSI)
- 5** Commercial / Industrial Steam Boiler – Secondary Control (250PSI)



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LOW WATER CUT-OFFS

Automatic Reset with Burner Circuit Test Button — Residential Code Controls Wire Harnesses also sold separately (see page 6).

1100	24VAC	Compact low water cut-offs for residential boilers. Interrupts power immediately in low water condition. POWER and LOW WATER lights with TEST button. 1100 comes with wiring harness for standard fan center.	1	45-1100
1100H3		1100 without wiring harness		45-1103
1100H5		1100 with harness for Weil-McLain Ultra, Lochinvar Knight and Solution		45-1105
1100H7		1100 with harness for connecting vent damper plug on Honeywell and UTC boiler control modules (natural draft models only)		45-1107
1150	120VAC	See description for 1100 (above)		45-1150



Automatic Reset

24	24VAC	Interrupts power immediately in low water condition. Automatically resets on normal water level. SV models include shorter EL1214-SV probe suitable for mounting in standard black tee.	1	45-240
24SV				45-245
170	120VAC			45-170
170SV				45-175



Manual Reset

700	24VAC	Interrupts power immediately in low water condition. Manual reset required after 30 seconds. Will not trip out on power failure. SV models include shorter EL1214-SV probe suitable for mounting in standard black tee.	3,5	45-700
700SV				45-701
750	120VAC			45-750
750SV				45-751



Automatic Reset & Test Button/Light

600	24VAC	Interrupts power immediately in low water condition. Automatically resets on normal water level. Test Button tests control operation. SV models include shorter EL1214-SV probe suitable for mounting in standard black tee. P models include EL1214-P probe with longer nut for boilers with thicker jackets.	1,3	45-600
600SV				45-601
650	120VAC			45-650
650SV				45-651
650P				45-653



Manual Reset & Test Button/Light

1100M	24VAC	Compact low water cut-off for wall hung and space constrained applications. Interrupts power immediately in low water condition. Manual reset required after 30 seconds. Will not trip out on power failure. Test button tests control operation. Includes standard wire harness.	1	45-1100M
1100M5		1100M with harness for Weil-McLain Ultra, Lochinvar Knight and Solution		45-1105M
1100M7		1100M with harness for connecting to vent damper plug on Honeywell and UTC boiler control modules (natural draft models only)		45-1107M
500	24VAC	Interrupts power immediately in low water condition. Manual reset required after 30 seconds. Will not trip out on power failure. Test button tests control operation. SV models include shorter EL1214-SV probe suitable for mounting in standard black tee. R models include EL1214-R probe for remote mounting. P models include EL1214-P probe with longer nut for boilers with thicker jackets.	3,5	45-500
500SV				45-501
550				45-550
550SV				45-551
550R				45-552
550P				45-553



Non-Cycling Steam Primary Low Water Cut-Off – 15 Second Delay

400	24VAC	Interrupts power after 15 second delay in a low water condition. Automatically resets on return of normal water level. R models include EL1214-R probe for remote mounting.	2	45-400
400R				45-402
450	120VAC			45-450
450R				45-452





MODEL NUMBER	VOLTAGE	DESCRIPTION	APPLI-CATION*	PART NO.
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LOW WATER CUT-OFFS – continued

CycleGard – 15 Second Delay & Intermittent Level Test with *Smart Cycle*

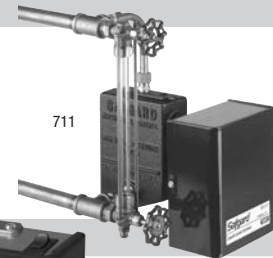
CG400-1090	24VAC	Same as 400 Series described on page 3 with <i>foam compensating</i> Intermittent Level Test. P models include EL1214-P probe with longer nut for boilers with thicker jackets.	2	45-410
CG400P-1090				45-413
CG400-2090				45-410-2090
CG450-1090	120VAC	INTERMITTENT LEVEL TEST Models ending in 1090 every 10 minutes 90 seconds 1560 every 15 minutes 60 seconds 2060 every 20 minutes 60 seconds 2090 every 20 minutes 90 seconds	2	45-460
CG450P-1090				45-463
CG450-1560				45-460-1560
CG450-2060				45-460-2060
CGT450-2060				45-480-2060
for tankless coil				



Note: Additional probe options available on above models. Contact the factory for part numbers and pricing.

LOW WATER CUT-OFF / FEEDER COMBINATIONS – For attachment to Gauge Glass Tappings

724WF	24VAC	Includes manifold casting, two probes, quick hook-up fittings, and feed valve assembly.	2 (35 PSI max)	45-724
711WF	120VAC			45-711
724CF	24VAC	As described above – without feed valve assembly.	2 (35 PSI max)	45-720
711CF	120VAC			45-710



WATER FEEDERS

VXT-24	24VAC	Fully programmable delay before feed and feed settings (1 to 5 gallon). Digital feed counter.	2	45-026
VXT-120	120VAC			45-122
VXTC	120VAC	Programmable feeder for commercial boilers. Includes water meter with 3/4" fittings, Y-strainer and flow restrictor.	4	45-125
VXTC-WF	120VAC			45-127



PUMP CONTROLLER / LOW WATER CUT-OFF COMBINATIONS

250	120VAC	Controls boiler feed pump to maintain boiler water level. Provides low water cut-off protection. Includes manifold casting with three model EL1214 probes. WC model includes water column manifold model 1214C-1.	4	45-250
250WC				45-252



FLOW SWITCH

FS200	N/A	Replaces Model 44-100. General purpose liquid flow switch, 160 PSI, fits 1" to 6" pipe. General purpose enclosure.	Multi-purpose	44-200
FS204	N/A	General purpose liquid flow switch, 160 PSI, fits 1" to 6" pipe. NEMA 4 enclosure.	Multi-purpose	44-204



WATER METER

WM-1	N/A	General purpose, heavy-duty water meter with 3/4" adaptors rated from .5gpm to 35gpm.	Multi-purpose	45-130
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HI WATER LIMIT & TANK LEVEL / PUMP CONTROLLERS

270SV	120VAC	High water limit control. Interrupts power to pump/feeder in high water condition. Provides alarm contacts. Includes EL1214-SV probe suitable for mounting in standard black tee.	Multi-purpose	45-270
727	120VAC	Maintains high level. Contacts make to start pump on low level. Includes one EL1214-SV, and one EL1214-RSV probe.	Multi-purpose	45-727
787	120VAC	Maintains low level. Contacts make to start pump on high level. Includes one EL1214-SV, and one EL1214-RSV probe.	Multi-purpose	45-787



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THIS PAGE TRIMS TO 7 3/4"

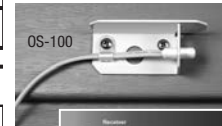
HYDROSTAT ACCESSORIES

MODEL NUMBER	PART NUMBER	DESCRIPTION
ELECTRO-WELL™ (for use with HydroStats to activate LWCO function)		
EW-201	48-201	Standard Electro-Well, 3/4" NPT, standard nut
EW-202	48-202	Extended Electro-Well, 3/4" NPT, long nut for tankless coil boilers
EW-203	48-203	3/4" NPT, short insertion depth, standard nut
EW-204	48-204	3/4" NPT, long nut, short insertion length for off-center immersion well tapping in tankless coil plate
EW-205	48-205	3/4" NPT, extra short insertion length for tight inside casting clearance
EW-206	48-206	3/4" NPT, standard insertion depth, long nut (Buderus)
EW-221	48-221	Standard Electro-Well, 1/2" NPT, standard nut
EW-222	48-222	Extended Electro-Well, 1/2" NPT, long nut for tankless coil boilers
EW-223	48-223	1/2" NPT, short insertion depth, standard nut
EW-224	48-224	1/2" NPT, long nut, short insertion length for off-center immersion well tapping in tankless coil plate
EW-225	48-225	1/2" NPT, extra short insertion length for tight inside casting clearance
48-130-10	48-130-10	Brush for cleaning interior of immersion well



OUTDOOR SENSOR KITS

OS-100	48-140	Activates Outdoor Reset and Warm Weather Shut-Down on HydroStat models 3200-Plus and 3250-Plus
OS-200 NEW	48-145	<i>Wireless Outdoor Sensor Kit</i> – Activates Outdoor Reset and Warm Weather Shut-Down on HydroStat models 3200-Plus and 3250-Plus



REMOTE MOUNTING KITS (for HydroStats)

48-101	48-101	Wall/Jacket Mounting Kit with 2' sensor cord.
48-105	48-105	Wall/Jacket Mounting Kit with 3' sensor cord.
48-102	48-102	Wall/Jacket Mounting Kit with 4' sensor cord.
48-103	48-103	Wall/Jacket Mounting Kit with 10' sensor cord.
48-104	48-104	Wall/Jacket Mounting Kit with 20' sensor cord.
48-121	48-121	Pipe Mounting Kit with 4' sensor cord.



REPLACEMENT SENSORS

48-3250-60	48-3250-60	12" replacement sensor for HydroStat
48-3250-59	48-3250-59	24" replacement sensor for HydroStat
48-3250-67	48-3250-67	3 ft. replacement sensor for HydroStat
48-3250-58	48-3250-58	4 ft. replacement sensor for Hydrostat
48-3250-57	48-3250-57	5 ft. replacement sensor for HydroStat
48-3250-56	48-3250-56	10 ft. replacement sensor for HydroStat



LIMITED MANUFACTURER'S WARRANTY

We warrant products manufactured by Hydrolevel Company to be free from defects in material and workmanship for a period of two years from the date of manufacture or one year from the date of installation, whichever occurs first. In the event of any claim under this warranty or otherwise with respect to our products which is made within such period, we will, at our option, repair or replace such products or refund the purchase price paid to us by you for such products. In no event shall Hydrolevel Company be liable for any other loss or damage, whether direct, indirect, incidental or consequential. This warranty is your EXCLUSIVE remedy and shall be IN PLACE OF any other warranty or guarantee, express or implied, including, without limitation, any warranty of MERCHANTABILITY or fitness for a particular purpose. This warranty may not be assigned or transferred and any unauthorized transfer or assignment thereof shall be void and of no force or effect.

PARTS AND ACCESSORIES Minimum Order \$20.00

MODEL NUMBER	PART NUMBER	DESCRIPTION
MANIFOLD FITTINGS		
FOEM-1	45-300	1½" x 1½" x ¾" C.I. Tee 160 PSI Max.
FOEM-2	45-304	1" x 1" x ¾" C.I. Tee 160 PSI Max.
FOEM-3	45-305	1¼" x 1¼" x ¾" C.I. Tee 160 PSI Max.
1" H.P. Tee	45-322	1" x 1" x ¾" High Pressure Tee (250 PSI Max.) for use with Model EL1214-SV probe
1214C-1	45-301	1" x 1" x (3) ¾" tapplings for probe, sightglass & tri-cocks
1214C-2	45-302	1" x 1" x ¾" C.I. Tee 250 PSI Max.
250C	45-303	1" x 1" x (3) ¾" probe tapplings. 250 PSI Max.
711C	45-309	(2) ¾" probe tapplings C.I. 35 PSI Max.
711C with fittings	45-310	711C casting as described above w/ quick hook-up fittings for gauge glass attachment.



PROBES		
EL1150	45-210	¾" NPT, 1½" inside dimension. For 1150 Series controls.
EL1214	45-214	¾" NPT, 2" inside dimension. Standard ceramic.
EL1214-SV	45-215	¾" NPT, 2½" inside dimension. Short ceramic.
EL1214-P	45-226	¾" NPT, 2" inside dimension. Standard ceramic. Long nut (1½").
EL1214-LSV	45-227	¾" NPT, 2½" inside dimension. Short ceramic.
EL1214-R	45-224	EL1214 probe in J-box with metal cover.
EL1220	45-220	½" NPT, 2" inside dimension. Standard ceramic.
EL1220-R	45-223	EL1220 probe in J-box with metal cover.
EL1220-SV	45-221	½" NPT, 2½" inside dimension. Short ceramic.



COMMERCIAL/INDUSTRIAL CONTROLS
 • Control box only • For field replacement • Probes and manifolds not included

711-CO	45-713	Low water cut-off. 120 VAC, 60 Hz. Supply Voltage.
724-CO	45-726	Low water cut-off. 24 VAC, 60 Hz. Supply Voltage.
250-CO	45-260	Low water cut-off. 120 VAC, 60 Hz. Supply Voltage.

PARTS

45-531-54	45-531-54	Standard wire harness for Model 1100 LWCO
45-347	45-347	Wire harness for connecting Model 1100 to Burnham PVGA, PVCGA, Series 2, New Yorker CG-D
45-348	45-348	Wire harness for connecting Model 1100 to UTC Boiler Control Module
45-349	45-349	Wire harness for connecting Model 1100 to Lochinvar Knight and Solution, Weil-McLain Ultra
45-350	45-350	Wire harness for connecting Model 1100 to Burnham CHG, SCG, PVG, Crown Bimini
45-353	45-353	Wire harness for connecting Models 1100 and 1100M to vent damper plug on boiler control modules
KUP-11A15	45-337	Plug-in relay, DPDT for 250,967,727,787 controls
KUP-14A15	45-338	Plug-in relay, 3PDT for 711,724 controls
45-024-66	45-343	24 VAC Feed Valve Assembly
45-120-66	45-344	120 VAC Feed Valve Assembly
45-725	45-725	24 VAC Feed Valve Assembly in J-Box (for 724 Series Control)
45-715	45-715	120 VAC Feed Valve Assembly in J-Box (for 711 Series Control)

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