

RFQ and Purchase Order Specification Work Sheets

Section: R406.011
Date: 5/28/2020
Supersedes 6/25/2018
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12 Probe Electro Eye-Hye System

ELECTROLEV FURNISHED WITH 30-INCH, HIGH-TEMPERATURE LEADS CONNECTED TO EACH ELECTRODE FITTING

COMMON TERMINAL
6 APPRX.
2 7/8 DIA
1 1/8 DIA HOLE FOR CIRCUIT
1 3/8
DISTANCE OF ELECTRODES FROM N.W.L. ("D")
2
HIGH WATER LEVEL
1
10
9
8
7
6
5
4
3
2
1
NORMAL WATER LEVEL
ELECTRODE NO.
LOW WATER LEVEL
A
B
C
D
E
F
G
OVERALL
4 5/32
3/8

NOTES:
1) SHUTOFF VALVES SHOULD BE PLACED BETWEEN STEAM DRUM AND ELECTROLEV

ITEM	PART NO.	QTY.	DESCRIPTION	MATERIAL	DWG. NO.
1	ELF-1P	1	BODY, SEAMLESS STEEL PIPE	ASTM A106	
2	X	12	GASKET		
3					
4	X	12	ELECTRODE FITTING ASSEMBLY		
5	ELFV-2	1	ELECTRODE FITTING HOUSING	STN. STL.	B-9124
6	RELV 6	1	BRACKET	SA36	
7					

A	
B	
C	
D	
E	
F	
G	

12	
11	
10	
9	
8	
7	
6	
5	
4	
3	
2	
1	

DESIGN PRESSURE: PSIG	THE CLARK-RELIANCE CORP. STRONGSVILLE, OHIO U.S.A.
DESIGN TEMP.: ° F.	TWELVE PROBE ELECTROLEV ASSEMBLY
HYDROTEST PRESS.: PSIG	SCALE: DATE:
MODEL NO.: EL -12	DRAWN BY: NO. E12
	CHECKED BY:

Please complete all information fields in this worksheet and submit with your RFQ (Request For Quote) or Purchase Order. The use of these worksheets has proven to greatly decrease Engineering time and virtually eliminate specification errors.

Reliance®

A PRODUCT OF CLARK-RELIANCE

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**Must accompany P.O with all fields
completed**

Customer: _____ Contact Name: _____
 Project Name: _____ E-mail: _____
 Project Location: _____ Phone Number: _____
 Date: _____ RFQ/P.O. Number: _____

ELECTROLEV COLUMN REQUIRED INFORMATION

STEAM & WATER CONNS.

(3/4", 1", or 1 1/2" MSW Pipe Projection are standard)

Steam & Water Connections (other than standard –
specify size & type Req'd.):

Design Pressure: _____

Design Temperature: _____

Model No.: _____

Male Socket Weld
(Pipe Projection): _____

Female Socket Weld: _____

Flange Size: _____

Flange Class: _____

Flange Face: _____

Other (please
specify): _____

Model Number	Probe Model	Max. System WSP			Max. Temp.	
		PSIG	BarG	Kg/cm ²	°F	°C
EL450-12	T020	450	31	31.6	456	236
EL1000-12	V020	1000	69	70.3	545	285
EL1800-12	ZG020	1800	124.1	126.5	621	327
ELF3000-12	FG031	3000	206.9	210.8	695	368
ESB3000-12	FSB030	3000	206.9	210.8	695	368

Brazed probe option:: ZB Probe FB Probe

DRAIN CONN.

(1/2" FSW is standard with Electrolev Column)

Drain Connection (other than standard – specify
size & type Req'd.):

Female Socket Weld: _____

Male Socket Weld
(Pipe Projection): _____

Flange Size: _____

Flange Class: _____

Flange Face: _____

Other (please specify): _____

OPTIONS REQUIRED

Vent connection (Specify
size & type): _____

Integral junction box: NEMA 4 NEMA 4X

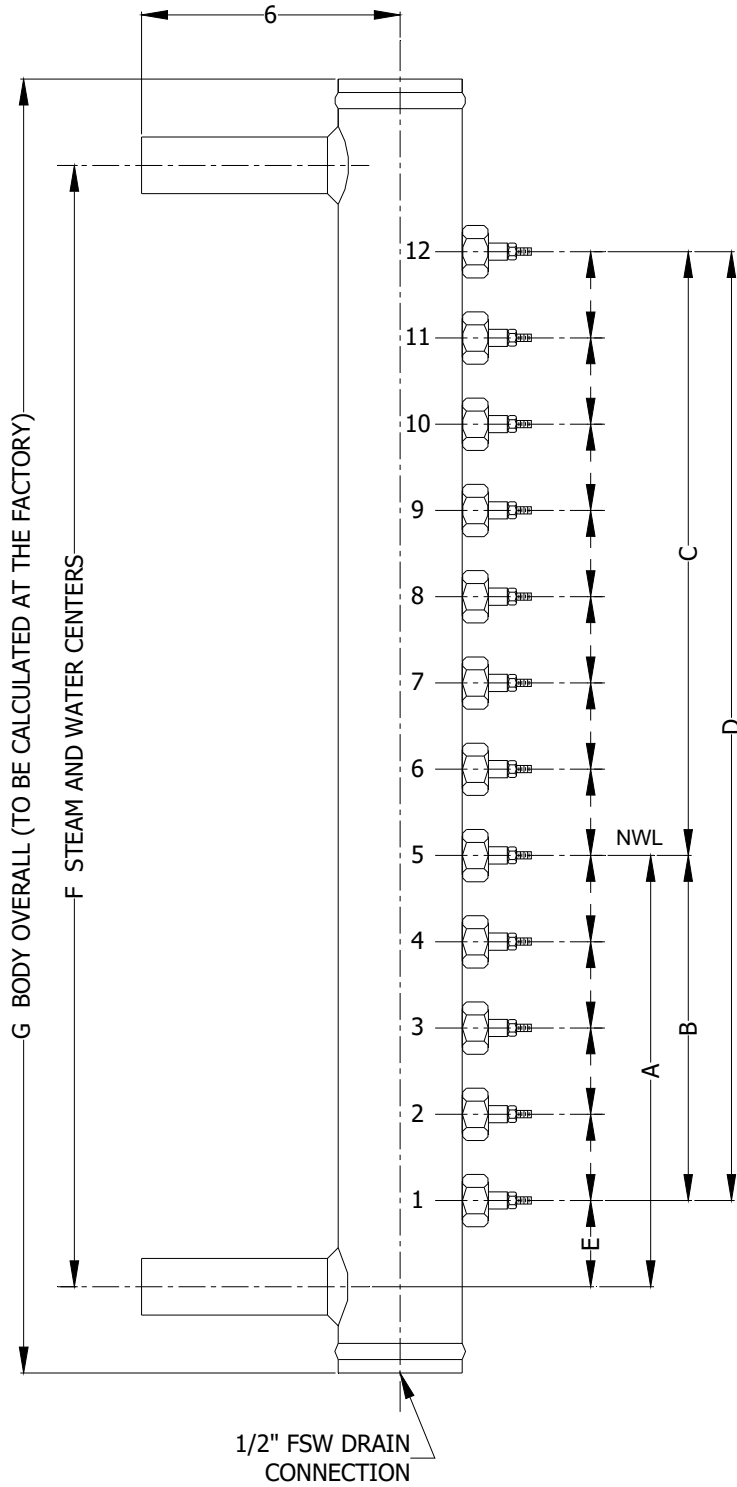
Additional probe wire
(specify length required): _____

FlexPak Insulation
Jacket:

Other (please specify): _____

REQUIRED DIMENSIONAL INFORMATION

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A	
B	
C	
D	
E	
F	
G	-----

PROBE DISTANCE FROM NWL	
12	
11	
10	
9	
8	
7	
6	
5	
4	
3	
2	
1	

DIMENSIONAL NOTES:

- 1) MINIMUM DISTANCE BETWEEN PROBES IS 1"
- 2) MINIMUM "E" DIMENSION IS 1"
- 3) MINIMUM DISTANCE BETWEEN TOP PROBE AND STEAM CONNECTION (UPPER CONNECTION) IS 1"

Note: This illustration shows Probe #5 as NWL. However, this location could vary depending on the application. Please signify NWL as "0" in the applicable box

Additional notes:

CONTROL UNIT REQUIRED INFORMATION

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Base Model Number:

ECIL-12R

Power Requirements:

120 VAC

240 VAC

Enclosure Required

NEMA 1 (Std.)

NEMA 4 (W'proof)

NEMA 4X (W'proof

Stn. Stl.)

NEMA 7 (Ex'proof)

No Enclosure Req'd.

Conduit hubs

Quantity _____ Size _____

Environment:

Indoor

Outdoor

Hazardous
Area



ECIL-12R
Control Unit
shown

Options Required:

ECID-69 Fault Detector 120 VAC

ECID-70 Fault Detector 240 VAC

ECID-71 System Exerciser Switch

PC-27 4-20 mA Output signal Package

Dead Band Relays

Slave Relays for additional Aux. contacts

Voting Logic Package

ECTSLR Test Switch

ECID-66 Intrinsically Safe Barrier for probe circuit

ECID-67 Intrinsically Safe Barrier for indicator circuit

PSD Power Supply Diverter 120 VAC 240 VAC

Relay Requirements:

Direct Mode (Std.)

Inverse Mode (Specify Probe Location) _____

Water Conductivity (Normal is 10 – 50 mho) _____

Time Delay (Specify Probe Location) _____

Other Requirements: _____

INDICATOR REQUIRED INFORMATION

Type of Indicator Required

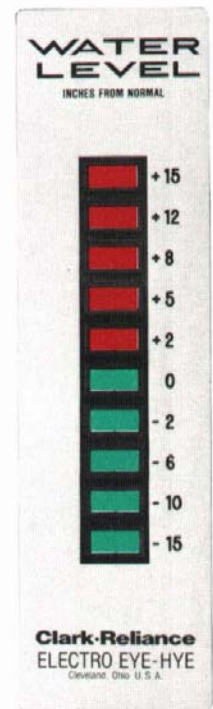
- STI Standard LED Indicator
- MTI Miniature LED Indicator (Red Lights only)
- MTI Miniature LED Bi-color Indicator (Red/Green Lights)
- SMI Sub-miniature LED Bi-color Indicator (Panel Mount)
- SMI Sub-miniature LED Bi-color Indicator (Encl. Door Mount)

Environment

- Indoor
- Outdoor
- Hazardous Area

Indicator Options

- Wall Mounting Bracket
- Weatherproof Enclosure
- Weatherproof Enclosure – NEMA 4X Stainless Steel
- Conduit hubs
Quantity _____ Size _____
- NEMA 7/4 Enclosure for SMI Indicators only



MTI-10B
Indicator shown

CABLE REQUIREMENTS

Amount Required (only available in lengths of 100, 500, or 1000 feet)

- _____ X174882 18 AWG Cable 15 Conductor
- _____ X174883 18 AWG Cable 25 Conductor
- _____ X174808 18 AWG Shielded Cable 4 Conductor
- _____ X174886 16 AWG Cable 19 Conductor (High Temp.)
- _____ X174887 16 AWG Cable 4 Conductor (High Temp.)
- _____ X174895 16 AWG Cable 9 Conductor (High Temp.)