

RFQ and Purchase Order Specification Work Sheets

Section: R406.010-1
Date: 3-31-2020
Supersedes: 6-25-2018
Page 1

10 Probe Electro Eye-Hye System

ELECTROLEV FURNISHED WITH 30-INCH, HIGH-TEMPERATURE LEADS CONNECTED TO EACH ELECTRODE FITTING
USE 18 A.W.G. TEFLON INSULATED WIRE
EL-450 & EL-1000 USE TYPE C
NIL-W-166780
EL-1800 USE NIL-W-25030

6 APPROX.

2 7/8 DIA

1 1/8 DIA HOLE FOR CONDUIT

10

9

8

7

6

5

4

3

2

1

HIGH WATER LEVEL

NORMAL WATER LEVEL

LOW WATER LEVEL

S & W CONN. 1\"/>

ELECTRODE NO.

4 5/32

TYPICAL ARRANGEMENT

NOTE: SHUTOFF VALVES SHOULD BE PLACED BETWEEN STEAM DRUM AND ELECTROLEV

ITEM	PART NO.	QTY.	DESCRIPTION	MATERIAL	DWG. NO.
1	EL-1P	1	BODY, SEAMLESS STEEL PIPE	ASTM A106	
2	ELFV-2	1	ELECTRODE FITTING HOUSING	SHEET STL	B-9124
3					
4	T020	10	ELECTRODE FITTING ASSEMBLY		
5	WCM-13	10	GASKET		
6					
7					

NOTES:

1. MODEL NO.
(A) EL450, W.S.P. 0-450 P.S.I. AT 456°F
 ■ T020 ELECTRODE FITTING
 ■ WCM-13 GASKET
 HYDROTEST AT 700 P.S.I.
(B) EL1000, W.S.P. 451-1000 P.S.I. AT 545°F
 ■ VEP ELECTRODE FITTING
 ■ E10-10 GASKET
 HYDROTEST AT 1500 P.S.I.
(C) EL1500, W.S.P. 1001-1500 P.S.I. AT 596°F
 ■ Z020 ELECTRODE FITTING
 ■ E20-10S GASKET
 HYDROTEST AT 2250 P.S.I.

2. CUSTOMER TO SPECIFY:
(A) MODEL OF ELECTROLEV
(B) TYPE OF S & W CONNECTION
3. SHUTOFF VALVES SHOULD BE PLACED BETWEEN STEAM DRUM AND ELECTROLEV

ELECTRODE NO.	DIMENSIONS IN INCHES
10	
9	
8	
7	
6	
5	
4	
3	
2	
1	

A	
B	
C	
D	
E	
F	
G	

DESIGN PRESSURE: 450 PSIG	THE CLARK-RELIANCE CORP. STRONGSVILLE, OHIO U.S.A.
DESIGN TEMP.: 456° F.	EL450-10
HYDROTEST PRESS. 700 PSIG	ELECTROLEV ASSEMBLY
MODEL NO.: EL450 -10	SCALE: NONE DATE: X
	DRAWN BY: NO. E-10
	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

16633 Foltz Parkway • Strongsville, OH 44149 USA
Telephone: +1 (440) 572-1500
www.clark-reliance.com • RelianceAppEng@clark-reliance.com

**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
EL450-10	T020	450	31	31.6	456	236
EL1000-10	V020	1000	69	70.3	545	285
EL1800-10	ZG020	1800	124.1	126.5	621	327
ELF3000-10	FG031	3000	206.9	210.8	695	368
ESB3000-10	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 ☐

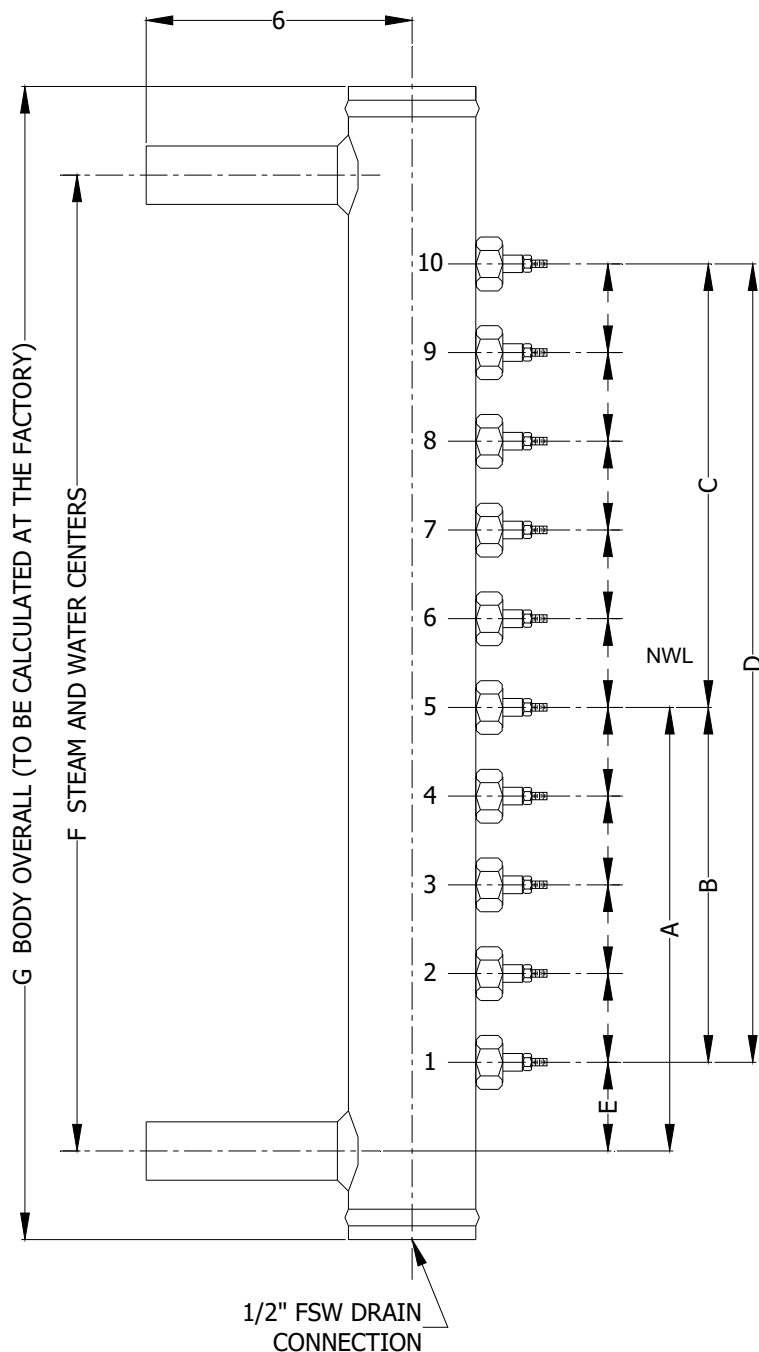
Additional probe wire
(specify length required): _____

FlexPak Insulation
Jacket: ☐

Other (please specify): _____

REQUIRED DIMENSIONAL INFORMATION

Section: R406.010-1
Date: 3-31-2020
Supersedes: 6-25-2018
Page 3



A	
B	
C	
D	
E	
F	
G	----

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

DIMENSIONAL NOTES:

- 1) MINIMUM DISTANCE BETWEEN PROBES IS 1" (25.4mm)
- 2) MINIMUM "E" DIMENSION IS 1" (25.4mm)
- 3) MINIMUM DISTANCE BETWEEN TOP PROBE AND STEAM CONNECTION (UPPER CONNECTION) IS 1" (25.4mm)

Additional notes:

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

CONTROL UNIT REQUIRED INFORMATION

Section: R406.010-1
Date: 3-31-2020
Supersedes: 6-25-2018
Page 4

Base Model Number:

ECIL-10R

Power Requirements:

120 VAC ☐

240 VAC ☐

Enclosure Required

NEMA 1 (Std.) ☐

NEMA 4 (IP66) ☐

NEMA 4X (IP66) ☐

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 ☐

☐ Other (please specify): _____

Relay Requirements:

Direct Mode (Std.)

Inverse Mode (Specify Probe Location) _____

Water Conductivity (Normal is 10 – 50 mho) _____

Time Delay-Field Adjustable 1.8 to 180 seconds (Specify Probe Location) _____

Other Requirements: _____

INDICATOR REQUIRED INFORMATION

Type of Indicator Required

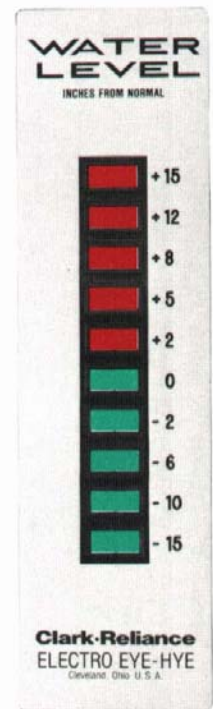
- ☐ MTI-10 Miniature LED Indicator (Red Lights only)
- ☐ MTI-10B Miniature LED Bi-color Indicator (Red/Green Lights)
- ☐ SMI-10BR Sub-miniature LED Bi-color Indicator (Panel Mount)
- ☐ SMI-10BD Sub-miniature LED Bi-color Indicator (Encl. Door Mount)

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.)