

# Relisafe™ - CO<sub>2</sub>

## Degas Conductivity Based Dissolved CO<sub>2</sub> Measurement

Forbes Marshall's Degas Conductivity Measurement System is designed to optimise the CO<sub>2</sub> removal process for conductivity measurement in ultrapure water applications.

A unique heat recovery feature ensures minimum power consumption along with maximum accuracy of measurement.

### Features

As per ASME PTC 19.11-2008 & ASTM D4519 standard

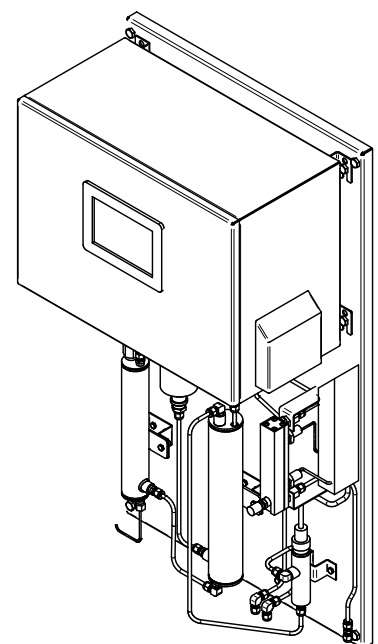
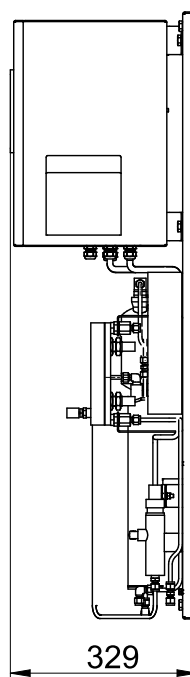
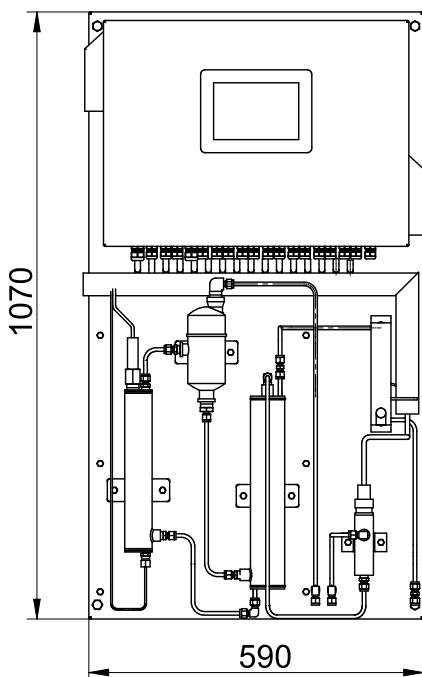
Electrical consumption 60-70% less than others

Coolant not required after degas column

CO<sub>2</sub> calculation version and system diagnostics software available on request



### Dimensional Drawing

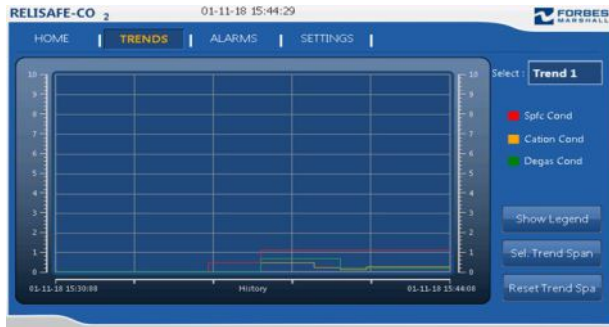


All dimensions are in mm.

# Relisafe™ - CO<sub>2</sub> Diagnostic Reports



Parameters	Low Limit	High Limit	Live Value
Specific Cond (µS/cm)	0.000	8.700	1.076
Cation Cond (µS/cm)	0.000	2.000	0.263
Degas Cond (µS/cm)	0.000	1.500	0.182
Degas Temp (°C)	0.0	120.0	99.8
Heater Temp (°C)	0.0	250.0	113.4
CO <sub>2</sub> (ppb)	0.00	30.00	22.21
pH	0.00	10.00	8.63



Text	State	Active Time	Acknowledged Time
CO <sub>2</sub> is Low	Inactive	01-11-18 15:37:07	
CO <sub>2</sub> is High	Inactive	01-11-18 15:36:59	
Heater Temp is Low	Inactive	01-11-18 15:29:01	
Degas Temp is Low	Inactive	01-11-18 15:29:01	
Degas Conductivity is Low	Inactive	01-11-18 15:29:01	
Cation Conductivity is Low	Inactive	01-11-18 15:29:01	
CO <sub>2</sub> is Low	Inactive	01-11-18 15:29:01	
pH is Low	Inactive	01-11-18 15:29:01	
Specific Conductivity is Low	Inactive	01-11-18 15:29:01	
Heater Temp is High	Inactive	01-11-18 15:29:01	
pH is High	Inactive	01-11-18 15:29:01	
Degas Conductivity is High	Inactive	01-11-18 15:29:01	
Degas Conductivity is High	Inactive	01-11-18 15:29:01	
CO <sub>2</sub> is High	Inactive	01-11-18 15:29:01	
Degas Temp is High	Inactive	01-11-18 15:29:01	
Specific Conductivity is High	Inactive	01-11-18 15:29:01	

## Specifications

Applicable standard codes	ASTM D4519, ASTM D1066, ASME PTC 19.11 ASME SEC VIII, Div-1
Mounting dimensions (L x W x H)	590 mm x 329 mm x 1070 mm
Unit mounting type	Wall / skid / structure
Empty weight (kg)	50
Flooded weight (kg)	51
Design pressure (barg)	5
Inlet sample temp (deg c)	20 to 45
Sample flow rate (lph)	5 to 10
Sample Inlet-Vent-Outlet connection	¼" NPT union (M)
Sample cooling method	In built heat recovery unit
Input power	110-120/220-240 VAC, 1 phase, 50/60 Hz (user needs to specify the power input requirement)
Display	Touch screen display : specific conductivity, acid conductivity, degassed conductivity, calculated pH, calculated CO <sub>2</sub>
Re-transmission signals	Specific conductivity, Cation conductivity, Degas conductivity, Dissolved CO <sub>2</sub> , Calculated pH

## Ordering Information

Item Code	Description
C4W_DEGAS_SMART CO <sub>2</sub>	Water quality monitoring system, online dissolved CO <sub>2</sub> monitoring system, drg no.- degas_smart CO <sub>2</sub>



Forbes Marshall  
Krohne Marshall  
Forbes Marshall Arca  
Codel International  
Forbes Solar  
Forbes Vyncke  
Forbes Marshall Steam Systems

Opp 106th Milestone  
Bombay Poona Road  
Kasarwadi, Pune - 411 034. INDIA  
Tel : 91(0)20-27145595, 39858555  
Fax : 91(0)20-27147413

Email : swasmktg@forbesmarshall.com, ccmidc@forbesmarshall.com

B-85, Phase II, Chakan Indl Area  
Sawardari, Chakan, Tal. Khed  
Dist. Pune - 410 501. INDIA  
Tel : 91(0)2135-393400

A-34/35, MIDC H Block  
Pimpri, Pune - 411 018. INDIA.  
Tel : 91(0)20-27442020, 39851199  
Fax : 91(0)20-27442040  
CIN No.: U28996PN1985PTC037806  
www.forbesmarshall.com

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