

SLIMLINE

GENERAL INFORMATION



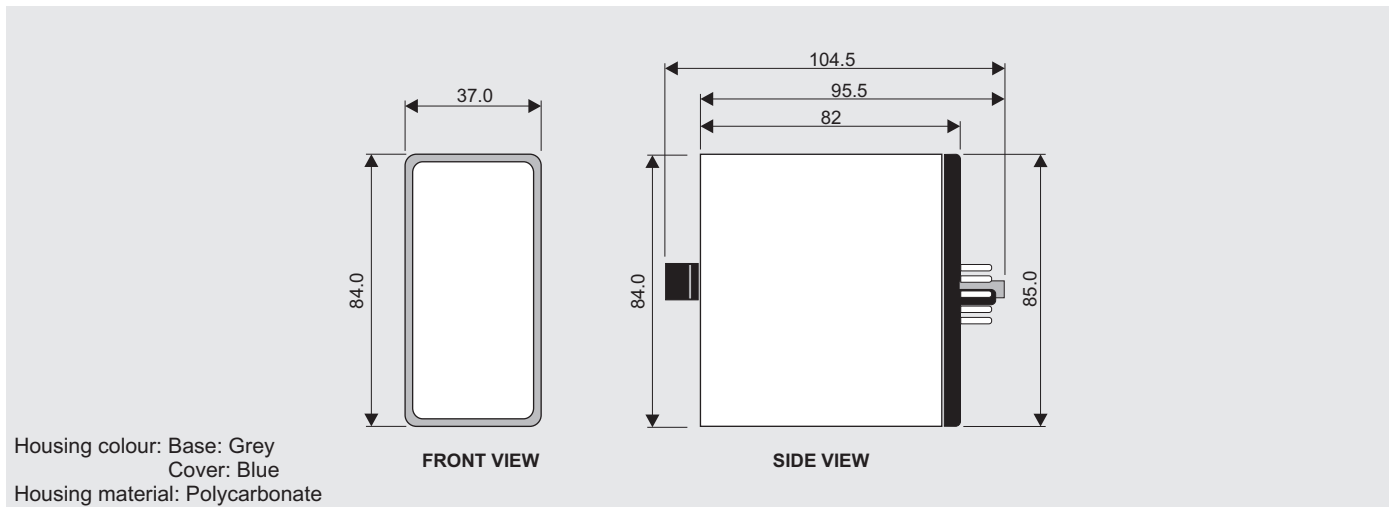
Section J is dedicated to the general information on all our products contained within this catalogue. If any other information is required please contact your nearest distributor or one of our Rhomberg offices.

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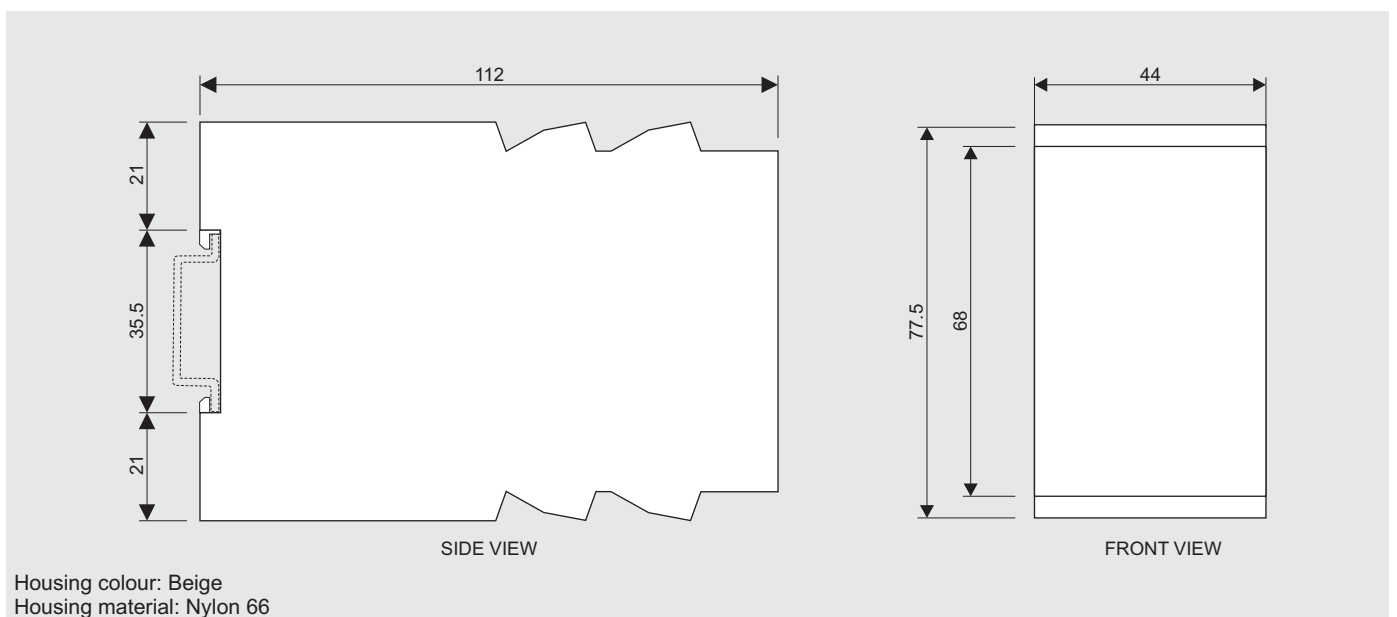
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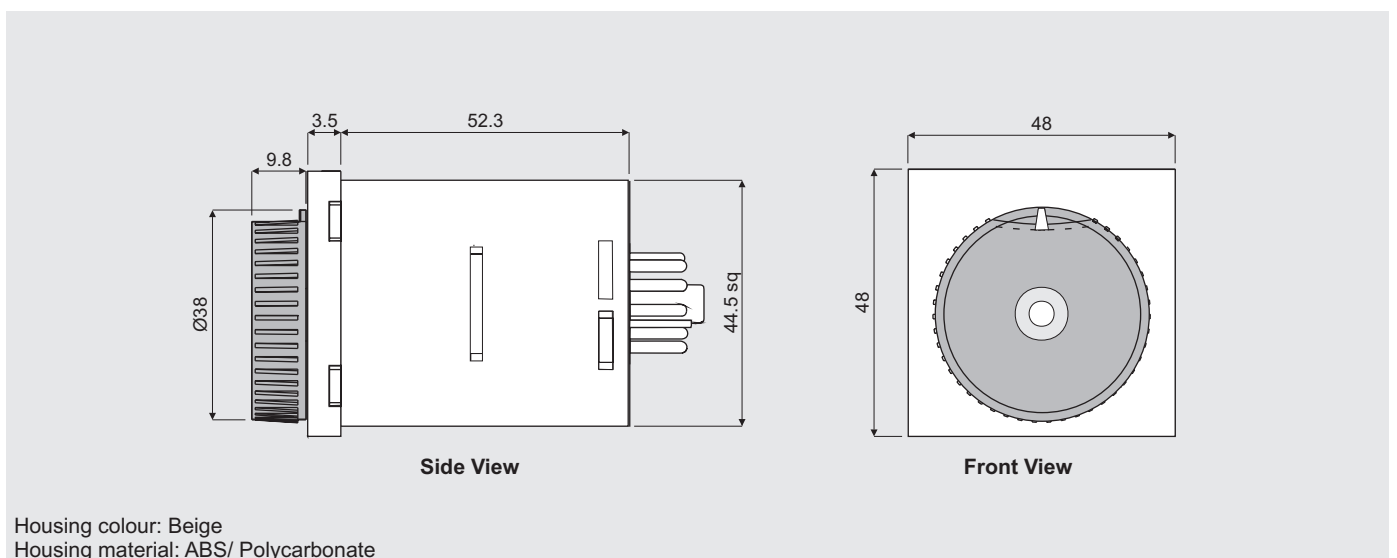
■ Slimline



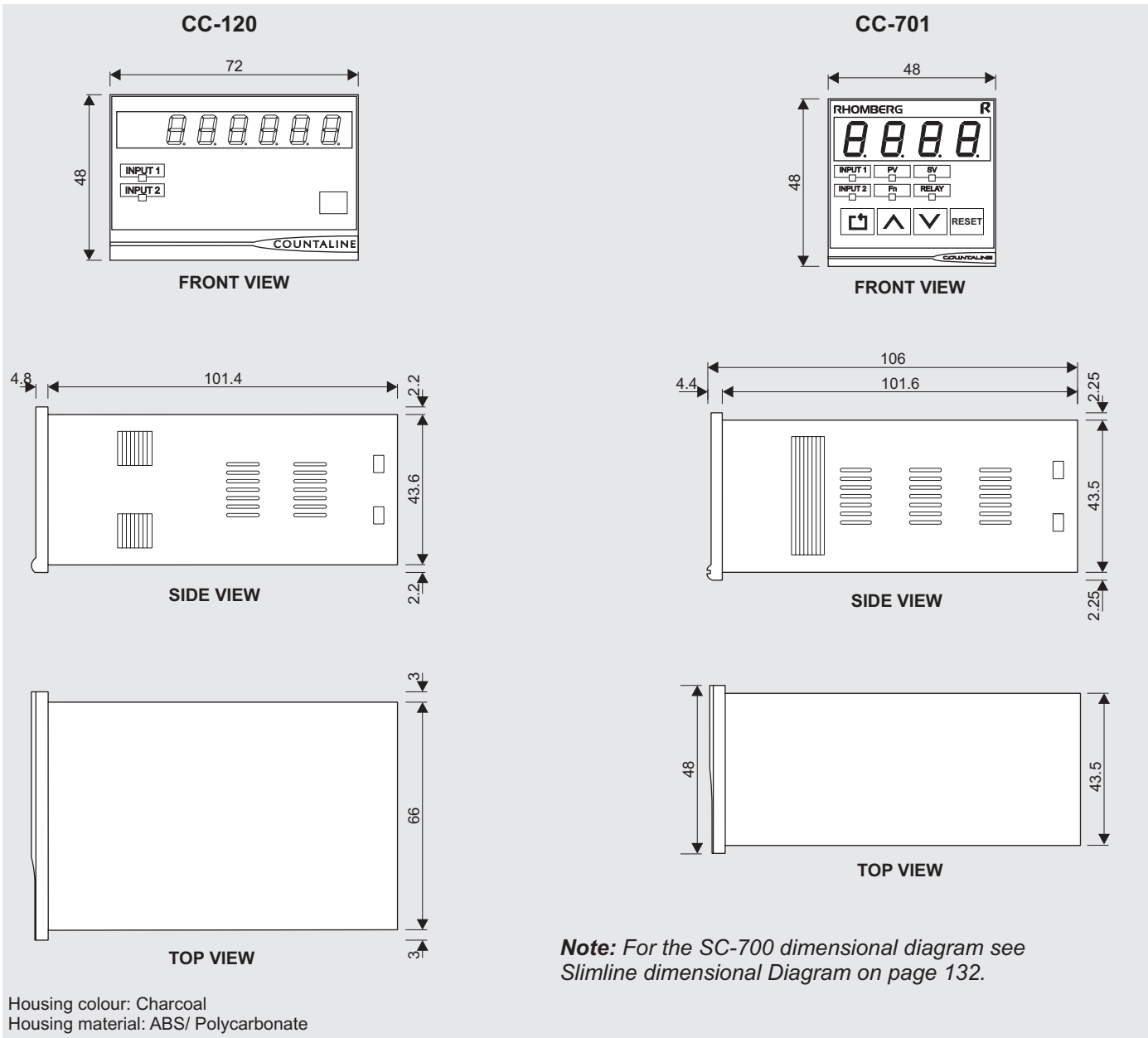
■ A-Line & Protecitor



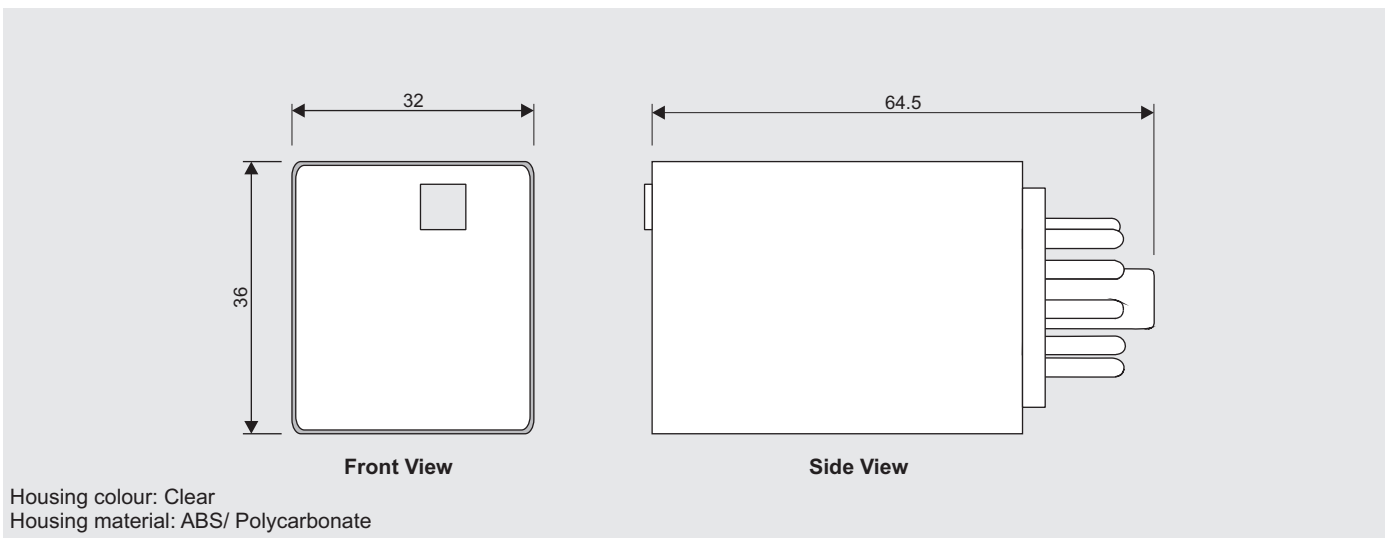
■ 48 x 48 Timers



■ Countaline



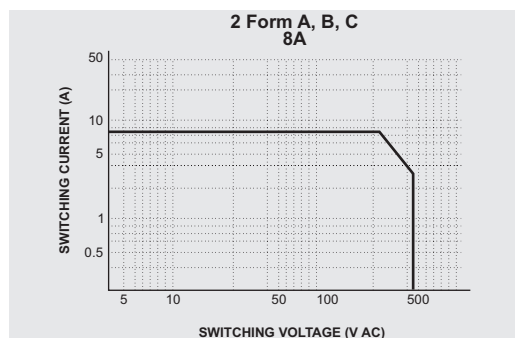
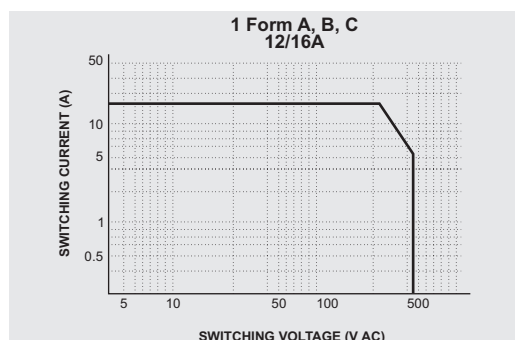
■ Industrial Relays



Technical Information

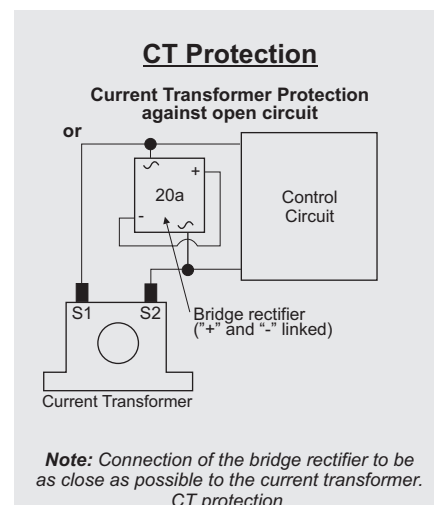
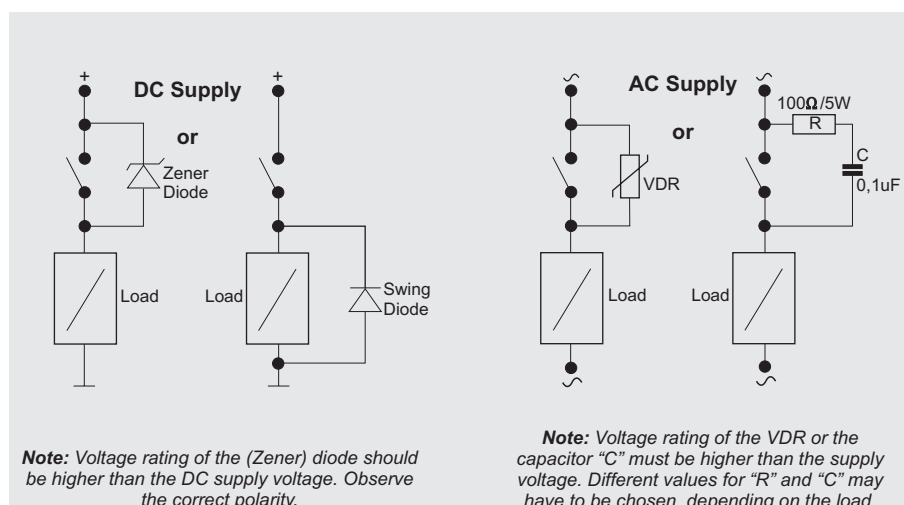
Ambient Temperature:	Storage: -50°C to +85°C Operating: -20°C to +50°C
Maximum ripple on DC power supply:	10%
AC supply frequency:	40 - 70Hz
Protection class:	IP40, IEC144, DIN 40050
Creepage distance:	VDE 0110 (group C 250V), NFC 20040 IEC 158.1
Isolation group:	VDE 0435
Note:	Modules with power supply voltages exceeding 250V do not comply with the above standards.

Relay Specifications



Contact Rating	SPDT	DPDT
Rated Load:	12A	8A
Max. Switching current:	12A	8A
Max. Switching voltage:	440AAC/125V DC	440AAC/125V DC
Max. Switching Power:	3000VA/4000VA	2000VA
Contact Data		
Material:	AgCdO	
Initial Contact Resistance:	50mΩ max. At 1A, 6V DC	
Service Life	Mechanical:	10 ⁷ ops
	Electrical:	10 ⁵ ops
Characteristics		
Insulation Resistance:	1000MΩ, at 500V DC, 50%RH	
Dielectric Strength:	1000Vrms, 1min. Between open contacts	
	2500Vrms, 1min. Between poles	
Shock Resistance:	10g, 11ms. Functional; 100g, destructive	
Vibration Resistance:	5g/10g, 30 - 150Hz	

Spark Quenching & CT Protection



■ Rated Motor Current Conversion Table

RATED POWER		THREE PHASE SUPPLY 50 - 60Hz					
		220V	380V	415V	440V	500V	660V
kW	Hp	A	A	A	A	A	A
0.37	0.5	1.8	1.03	-	-	1	0.6
0.55	0.75	2.75	1.6	-	-	1.21	0.9
0.75	1	3.5	2	2	1.68	1.5	1.1
1.1	1.5	4.4	2.6	2.5	2.37	2	1.5
1.5	2	6	3.5	3.5	3.06	2.6	2
2.2	3	8.7	5	5	4.42	3.8	2.8
3	4	11.5	6.6	6.5	5.77	5	3.8
4	5.5	14.5	8.5	-	-	6.5	4.9
5.5	7.5	20	11.5	22	10.4	9	6.6
7.5	10	27	15.5	14	13.7	12	8.9
10	13.5	35	20	-	-	15	11.5
11	15	39	22	21	20.1	17	12.7
15	20	52	30	28	26.5	23	17.3
18.5	25	64	37	35	32.8	28.5	21.3
22	30	75	44	40	39	33	25.4
30	40	103	60	55	51.5	45	34.6
37	50	126	72.5	66	64	55	41.8
45	60	147	85	80	76.3	65	49
55	75	182	105	-	-	80	60.6
75	100	239	138	135	125	105	79.8
90	125	295	170	165	156	129	98
110	150	356	205	200	186	156	118
132	175	425	245	230	216	187	141
160	220	520	300	-	-	228	173
200	270	640	370	-	-	281	214
220	300	710	408	385	-	310	235
250	350	823	475	450	-	360	274
315	430	1000	584	-	-	442	337

Note: Star-Delta rating calculated at full load current x 0.58

OTHER PRODUCT RANGES



Thermoline Temperature Controllers

Rhomberg's **Thermoline Temperature Controllers** are designed to be simple to install and straightforward to configure. Plug-in connectors save time and effort during installation and replacement. The intuitive text based function menu, where only the relevant parameters are visible, ensures a quick and easy initial set-up with no need to keep referring to the manual to make changes thereafter.



Digiline Digital Indicators

The Rhomberg **Digiline Digital Indicators** of locally manufactured microprocessor controlled digital indicators features a 4 digit bright LED display and are enclosed in an industrial standard 96 x 48 mm housing. The unit can be supplied as an indicator only or with 2 programmable relay outputs.

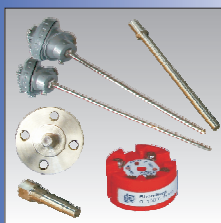
Other output options are analogue re-transmission (i.e. 4-20 mA). This option also includes a built in 24V DC power supply. All key features such as "Zero" and "Span" adjustment and calibration, relay inversion, relay delays etc. as well as hysteresis and decimal point can be programmed from the front panel. The units offer a wide range of input options including all popular thermocouple, RTD, and analogue process inputs.



Record-Line of Recorder Controllers

The **Record-Line of Recorder Controllers** are designed to accurately and simply meet a wide range of recording needs the circular chart recorder is available in single pen, two pen or three pen variants. available in three types.

Being fully programmable the standard instrument can be easily configured, using an integral key pad and pull down menus, to meet any custom requirement.



TS-Line of Temperature Sensors & TT-Line of Temperature Transmitters

Rhomberg manufactures the **TS-Line Temperature Sensors** of high quality temperature measuring instruments and sensors with a strong focus on individual customer requirements and international accepted quality standards to the industry.

The **TT-Line of Temperature Transmitters** is designed to fit both ANSI and DIN weather-proof heads with a single unit. The transmitter can be ordered for either thermocouple or RTD input. The transmitters can be calibrated for any type of thermocouple and for any range with a minimum span of 4mV.



Thermometers

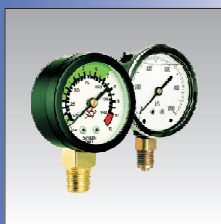
Rhomberg has a comprehensive range of **Bi-metal thermometers**, **"V-line liquid/mercury in glass thermometers**, **Nitrogen Gas range** of thermometers and lastly the **Digital Temperature Indicators**.

Our range of thermometers are designed to be robust but sensitive to temperature fluctuations giving accurate, reliable readings over a wide range of temperatures under the most arduous conditions.



Pressure Transmitter

The **PT-Line** is a range of precision 2-wire pressure transmitters. They are used to monitor products, process and hydraulic pressures and triggering safety shutdown when hazardous conditions are detected. These units are factory calibrated to deliver an output of 4mA at 0 pressure and 20mA at full scale.



Utility Gauges

Our range of **utility gauges** has been designed for light, medium and heavy duty service applications.