

## DIFFERENTIAL PRESSURE AND TEMPERATURE RECORDER

### RLC TYPE



#### PERFORMANCE SPECIFICATIONS

Accuracy : 1%

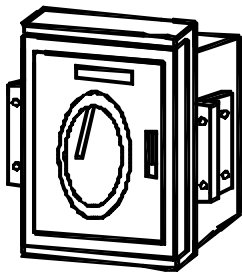
Three parameters recorded in the same time : flow, static pressure and temperature

Maximum admitted time index error : 5 minutes gain in 24 hours at 20° C

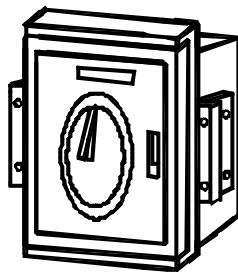
Chart Drive :

- for hazardous area using : clock work
- for non - hazardous area using : fractional - horsepower motor

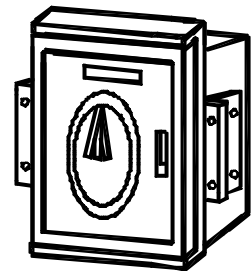
#### TYPICAL VERSIONS



one pen; AT36 sensing element  
 one pen; D-BT sensing element  
 one pen; D-TE sensing element



two pens; AT36, D-BT sensing element  
 two pens; AT36, D-TE sensing element  
 two pens; D-BT, D-TE sensing element



three pens; AT36, D-BT, D-TE sensing element

## FUNCTIONAL SPECIFICATIONS

### Differential pressure ranges (Dp) , when AT36 sensing element is used (see Product Data Sheet no. B32-2)

- min. 0 - 500 mm H<sub>2</sub>O
- max. 0 - 35,000 mm H<sub>2</sub>O

### Static pressure ranges (p<sub>s</sub>), when D-BT sensing element is used (see Product Data Sheet no. B32-1)

- 1...0...2; -1...0...3; -1...0...4; -1...0...6
- 1...0...8; -1...0...10; -1...0...12; -1...0...16
- 1...0...20; -1...0...24; 0...30; 0...40; 0...50;
- 0...60; 0...75; 0...90; 0...100.0...150;
- 0...225; 0...250; 0...400.

### Temperature ranges (T) , when D-TE sensing element is used (see Product data Sheet no. B32-3)

- min. 25°C
- max. 500°C

**Protection grade** : IP 54, acc EN 60529

**Ambient temperature** : - 25 ...+40° C

**Humidity** : 65% +15% at 20° C

**Climatic protection** : N acc to STAS 6535-83

**Environmental conditions class** : 3 acc to STAS 6692-83

**Chart drive** : clock work or fractional - horsepower motor  
(1 rotation/ 24 hours; clock adjustment at 24 hours)

**Power consumption** : 4 VA

#### Mounting :

- yoke for 2" pipe
- on wall
- on panel

#### Chart graduation type :

percentage (%), from 10 to 10 measuring units

**Time scale graduation** : circular, from hour to hour  
(from 1 to 24 hours) outbye of chart.

## PHYSICAL CHARACTERISTICS

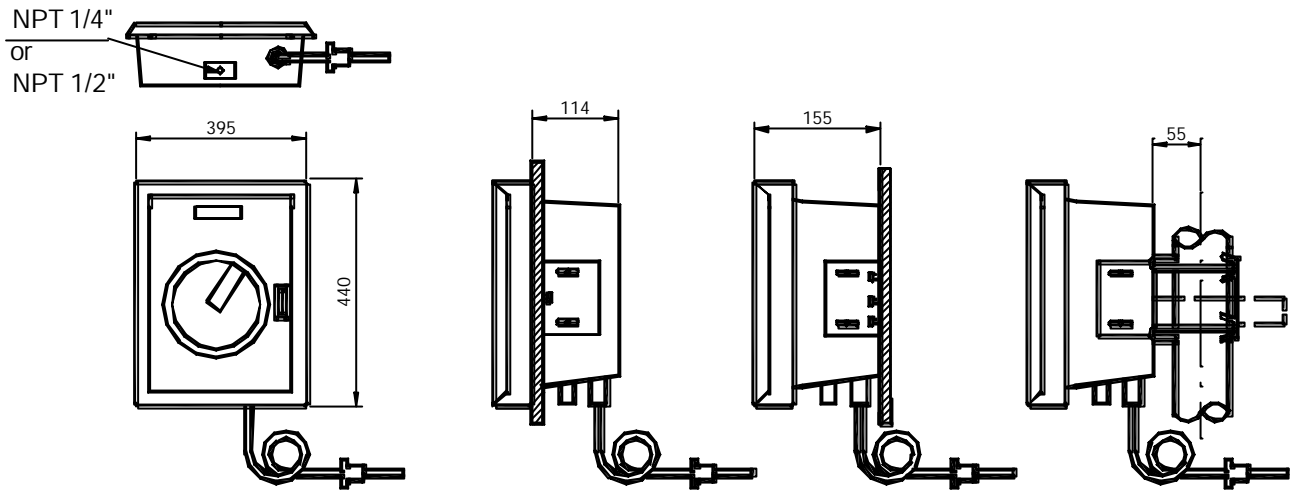
Process connections :

- using D-BT sensing element for static pressure recording;
- using AT36 sensing element for differential pressure recording; see Data Sheet
- using D-TE sensing element for temperature recording; see General Specification E163-1

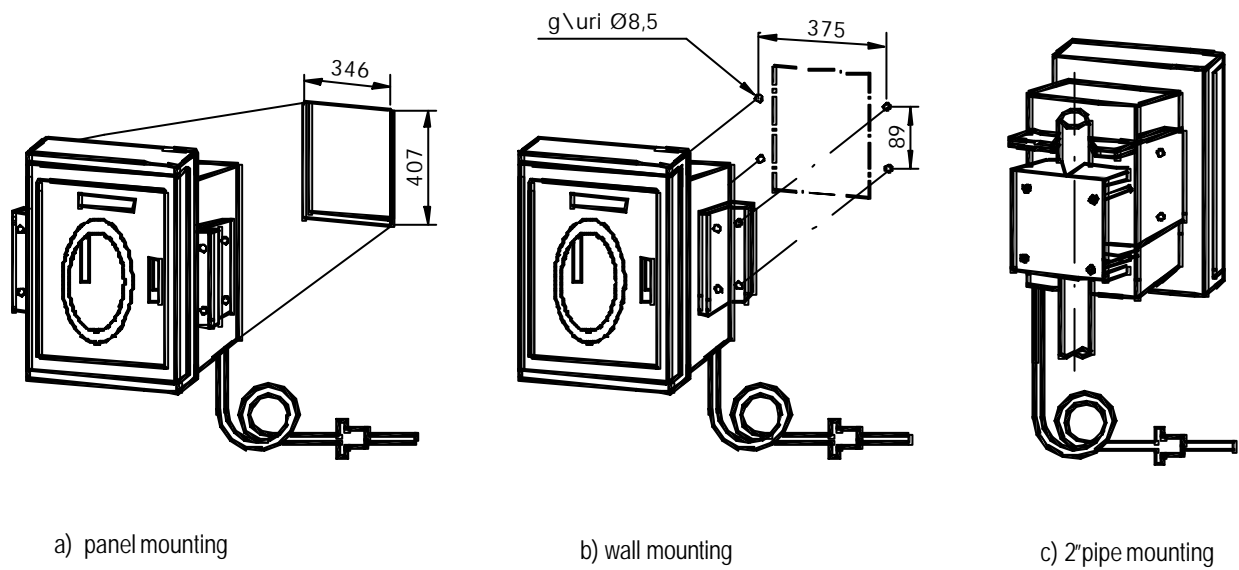
Materials :

- Bourdon tube : AISI 316 - 25CrMo4
- diaphragms and separator body : AISI 316, AISI 316L, Hastelloy C, K-Monel, Tantal
- capillary tube flex hose : AISI 316, AISI 316 and PVC
- diaphragm : chart paper acc. to STAS 5615-80

## OVERALL DIMENSIONS



## TYPICAL MOUNTING



## CODING

Type RLC	XX	X	X	X	Level information
Level	a	b	c	d	
					<b>a. Constructive versions</b>
	01 (1)				Differential pressure recording (one pen, using AT36 sensing element). Chart code 3105.7493
	02 (1)				Flow recording (one pen, using AT36 sensing element). Chart code 3105.7492
	03 (1)				Differential pressure and flow recording (one pen, using AT36 sensing element). Chart code 3105.7491
	04 (1)				Flow and static pressure recording (two pens, using AT36, D-BT sensing element without isolating diaphragm). Chart code 3105.7491
	05 (1)				Flow and static pressure recording (two pens, using AT36, D-BT sensing element with isolating diaphragm). Chart code 3105.7491
	06				Static pressure recording (one pen, using D-BT without isolating diaphragm). Chart code 3105.7493
	07				Static pressure recording (one pen, using D-BT with isolating diaphragm). Chart code 3105.7493
	08 (1)				Differential pressure and temperature recording (two pens, using AT36, D-TE sensing element). Chart code 3105.7493
	09 (1)				Differential pressure, flow and temperature recording (two pens, using AT36, D-TE sensing element). Chart code 3105.7491
	10 (1)				Flow, static pressure and temperature recording (three pens, using AT36, D-BT sensing element without isolating diaphragm, D-TE sensing element). Chart code 3105.7491
	11 (1)				Flow, static pressure and temperature recording (three pens, using AT36, D-BT sensing element with isolating diaphragm, D-TE sensing element). Chart code 3105.7491
	12				Static pressure and temperature recording (three pens, using D-BT without isolating diaphragm, D-TE). Chart code 3105.7491
	13				Static pressure and temperature recording (three pens, using D-BT with isolating diaphragm, D-TE). Chart code 3105.7491
	14				Temperature recording (one pen, using D-TE sensing element). Chart code 3105.7491
					<b>b. Chart drive</b>
	1 (2)				with mechanical clock
	2				with electric synchronous motor 110 V (+10%...-15%) / 50 Hz±2 Hz
	3				with electric synchronous motor 220 V (+10%...-15%) / 50 Hz±2 Hz
					<b>c. Mounting</b>
	1				with yoke on 2" pipe
	2				on panel
	3				on wall
					<b>d. Cover safety</b>
	0				without lock insert
	1				with lock insert

(1) improperly for 2 at " c" level

(2) mechanical clock chart drive is used for explosionproof constructive version

### NOTE :

AT36, D-BT and D-TE sensing elements have to be ordered acc. to their General Specifications : E162-1, E161-1, E163-1.