

SERIES T7V



T7V series includes 4 ÷ 20 mA loop powered field digital indicators for ATEX Ex ia or Ex n applications and non ATEX application.

Configuration and calibration are performed locally through the use of the buttons and the display.

All of the standard industrial and marine field measuring units are available (level, ullage, volume, pressure, flow, temperature, density, consistency etc. and user-defined units inserted by display).

APPLICATION FIELDS

- Loop powered field digital indicator;
- Installation on chemical, Oil & Gas, pharmaceutical, alimentary, marine plants etc;
- Installation in areas with persistence of potentially explosive mixtures.



SCIGATE AUTOMATION (S) PTE LTD
No.1 Bukit Batok Street 22 #01-01 Singapore 659592
Tel: (65) 6561 0488 Fax: (65) 6562 0588
Email: sales@scigate.com.sg Web: www.scigate.com.sg
Business Hours: Monday - Friday 8.30am - 6.15pm

TECHNICAL FEATURES

Electrical parameters

Supply: 24 Vdc Loop powered

Input signal: 4÷20 mA (3.5÷35 mA)

Output signal: Display LCD

Maximum load: < 300 Ohm

Measurement performance

Total accuracy (*): ± 0.1 % of reading

Damping: 0 ÷ 60 s

Long term stability: < 0.02 % FS for year

Environmental Conditions

Temperature class: T6, T85°C: -40°C ≤ Tamb ≤ 60°C
T5, T100°C: -40°C ≤ Tamb ≤ 75°C

LCD working temperature: -10 ÷ +65°C

Storage temperature: -40 ÷ +90°C

Ingress protection degree: AISI 316 Housing: IP67
Aluminum Housing: IP66

Vibration Test: in accordance with IEC 60068-2-6

Relative Humidity: < 98% RH not condensing

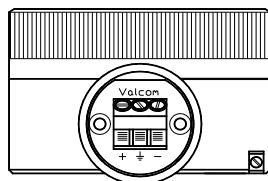
APPROVALS

Type approvals

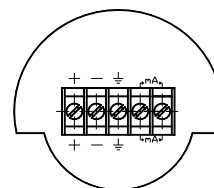
Directive 2014/34/EU (ATEX)  II 1G Ex ia IIC T6, T5 Ga and  II 1D Ex ia IIIC T85°C, T100°C Da or
 II 1/2G Ex ia IIC T6, T5 Ga/

Directive 2014/30/EU (EMC) Adequate level of electromagnetic compatibility

ELECTRICAL WIRING

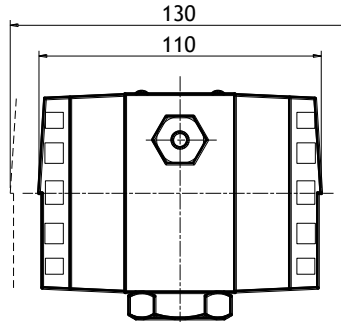
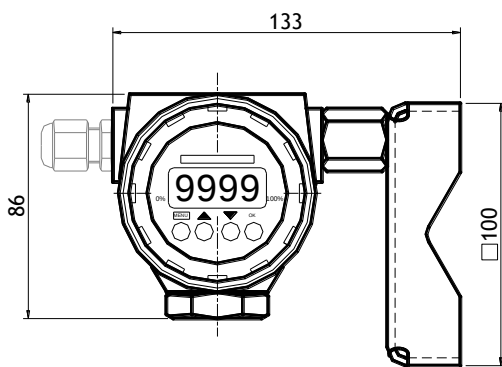


Inox housing



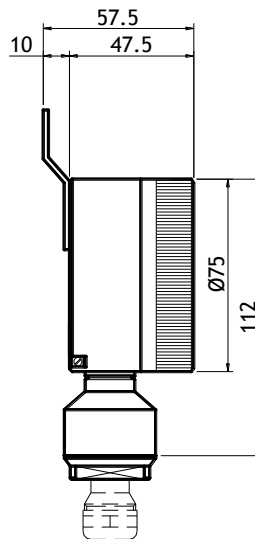
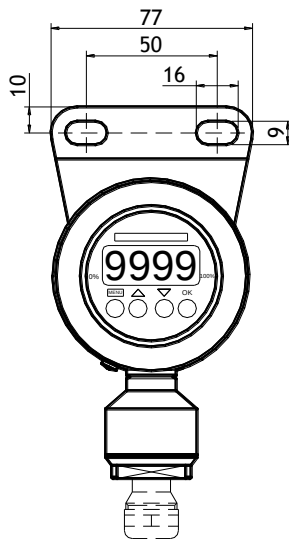
Aluminum housing

HOUSING MATERIAL AND TYPE



- Material: Aluminum
- Zone: Ex II 1/2G
- Protection Degree: IP66

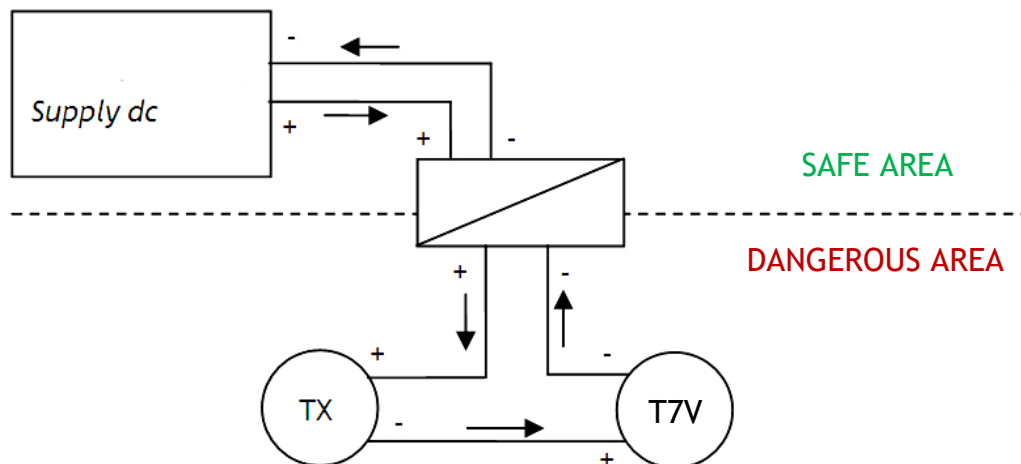
D04 - Aluminum housing with 2'' pipe bracket



- Material: AISI 316
- Zone: Ex II 1GD
- Protection Degree: IP67

A11 - AISI 316 Ø 75 mm with wall mounting bracket

WIRING LAYOUT



ORDERING CODE

T7V Field digital indicator

01 Type of measure

L Measuring Loop

02 Sensor type

ZZ None

03 Measuring range

E01 0 ÷ 100%

ZZZ Special

04 Filling oil

N No filling

05 Process temperature limits

B -40 ÷ 85°C

06 Housing material and type

A11 AISI 316

D04 Alluminum housing

07 Process connection

Z56 Without for cable

08 Extension length

N00 None

09 Sensor material

X None

10 Process gasket material

N None

11 Wetted parts material

0 None

12 Electrical connection

19 Nylon cable gland PG9 Ø 5 ÷ 7 mm cable IP67

37 Nipple 1/2" NPT-F

81 Screwed M20 x 1.5-F

13 Electrical output

5 None (Loop 4-20 mA)

14 Ex type approval

A1  II 1G Ex ia IIC T6, T5 Ga and  II 1D Ex ia IIIC T85°C, T100°C Da

A5  II 1/2G Ex ia IIC T6, T5 Ga/Gb

N0 No Ex certification

15 Options and accessories

S4 Wall mounting bracket

S5 Wall mounting bracket

Z9 Special

NN No options