

Data sheet. www.samcon.eu

The **To7 housing series** series is an extremely powerful camera housing concept suitable for hazardous areas and is certified according to European regulations (ATEX) as well as international ones (IECEx). The housings' certification comprises ATEX group I (mining) and die ATEX group II (gas & dust). In accordance with the requirements of the impact and free-fall tests (DIN EN 60079: 0 2012), the housings are suitable for fix and mobile (portable) applications!

### Modular design

The heart of the modular design is the four housing bodies which differ in diameter. Instead of executing the flange connections disposing of threads, we have decided for an execution with cylinder thread flanges. So no matter how you configure the housing – it is always extremely robust and safe!

## Media resistance and sealings

Due to the high-quality materials used for the T07 Series, it meets the requirements of a comprehensive media resistance list! It is also possible to freely select different stainless steel alloys to reflect the best execution for the applicable application. The particularly designed GYLON (PTFE) flat sealing does not only ensure the housing to be watertight (IP68) but also supports the resistance towards several chemicals.

### **Temperatures**

Also with regard to the allowed ambient temperature range the new housing series sets new standards as the ambient temperature can range between -60°C and +160°C!

# Our explosion proof housing - your device

You look for a tough but also elegant protection housing for your device series? You opt for a modular housing design but you do not want to make any compromises regarding the application possibilities? Our housing series might provide the solution for your problem. If you are interested in receiving additional information, please do not hesitate to contact us at any time – we are looking forward to assisting you further!

## Data.



#### **Explosion protection**

DIN EN 60079- 0:2014, DIN EN 60079- 1:2015 Declaration of conformity:

DIN EN 60079-31:2014



Marking acc. to Directive 2014/34/EU (ATEX):

Explosion protection (gas): Explosion protection (dust): Explosion protection (mining): 😉 II 2G Ex db IIC Gb 😉 II 2D Ex tb IIIC Db 🔛 I M2 Ex db I Mb\*



Marking acc. to IECEx:

Explosion protection (gas): Ex db IIC Gb Ex tb IIIC Db Explosion protection (dust): Explosion protection (mining): Ex db I Mb\*

Schillerstrasse 17

**To7 Serie** 



\* Not valid for T07-VA2.x.x.BOR5 and VA0.X.GER models

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D-35102 Lohra-Altenvers



Mechanichal characteristics

Temperature range:

Housing material: Stainless steel (corossion resistant steel according to EN 10027-2)

-60°C to +160°C

MNo.: 1.4404 (X2CrNiMo17-12-2), AISI 316L, (V4A), (standard)

Further stainless steels upon request

Additional materials: WNr.: 1.0330 (spring steel)

PTFE with glass micro beads (GYLON® Style 3504 blue),

Borosilicate glass (Ilmadur 10 I-420) -(standard)-

Silicone casting compound

VMQ (silicone)

IP 68 (IEC / EN 60529) Protection level:

Model:	Dim. (w x h x d)/mm	Weight/g	Void volume/cm <sup>3</sup>
VA0.1.K1.BOR	48.0 x 48.0 x 127.0	500	136
VA0.1.K1.GER	48.0 x 48.0 x 127.0	540	136
VA0.4.K1.BOR	48.0 x 48.0 x 172.0	600	200
VA0.4.K1.GER	48.0 x 48.0 x 172.0	600	200
VA1.2.K1.BORX	79.0 x 79.0 x 158.0	2200	480
VA2.0.K1.BORX	113.0 x 113.0 x 160.5	3600	1080
VA2.1.K1.BORX	113.0 x 113.0 x 210.5	4100	1520
VA2.2.K1.BORX	113.0 x 113.0 x 260.5	5100	1960
VA2.3.K3.BOR3	113.0 x 113.0 x 310.5	5900	2350
VA4.1K.BOR1	216.0 x 216.0 x 145.0	13660	3580
VA4.1K.PS1	216.0 x 216.0 x 236.0	11300	4880



Quantity of cable glands:

VA0.X.K1.X 1x M20x1.5 VA1.X.K1.X 1x M20x1.5 VA1.X.K2.X 1x M16x1.5 VA2.X.K1.X 2x M20x1.5 VA2.X.K2.X 1x M20x1.5 VA2.X.K3.X 2x M20x1.5

VA4.X.K1 2x M20x1.5 + 1x M25x1.5



General Acetone, alcohol, acetylene, ammonia, aniline, benzene, butane, chlorine, pressurized water, pressurized air, ethane, crude oil,

fluorine, glycerin, sea water, methane, oils, phosphoric acid,

propane etc. (excerpt)

Stainless steel:

MNo.1.4404: Resistance against aggressive acids and also media containing

chlorine (highly acid environments), not suitable for permanent

sea water applications



Dimensions:

VA0.x:  $DxT = 40 \times 10 \text{ [mm] } D1 = 35 \text{ [mm] (visible)}$ DxT = 48 x 10 [mm] D1= 40 [mm] (visible) VA1.x: VA2 x · DxT = 80 x 10 [mm] D1= 72 [mm] (visible) VA4.x:  $DxT = 150 \times 15 \text{ [mm] } D1 = 120 \text{ [mm] (visible)}$ 





