

# PSG Plus Extruded Duo

#### **Application**

The controlled heated sample lines series PSG Plus Extruded **Duo** are used for continuous extractive gas analysis. Heated division in highly flexible sections is possible in lengths of 60 cm, 120 cm or 180 cm. All combinations are possible: Split on the sample and / or analyser side. In this way, continuous heating, e.g. of calibration gas lines or the operation of two analysers with one probe, can be easily implemented. This type of line is mainly used for mercury analysers or for systems that operate both cold-extractive and hot-extractive. The PSG Plus Extruded Duo lines are primarily used to transport the moist sample gas flow from the sampling point to the analyser house. The holding temperature of the line must be above the water vapor or acid dew point of the sample gas to prevent uncontrolled condensation of water vapor on the way to the analyser and thus the washing out of gas components in the condensate. In the standard version with 2 6x1mm PTFE inner cores and PVC jacket, this line is in stock and can usually be delivered at short notice.

### **Technology**

The robust cables with thick-walled extruded, flame-retardant and weather-resistant TPU, PE or PVC outer jacket are equipped with high-quality

PSG-Plus parallel heating tape. Insulation is provided by a thermal fleece. Due to the matching insulation in the two outgoing sample gas lines, only one temperature sensor in a variable point of the line is sufficient.

#### **Functions**

The cables are available up to 73m in one piece and can be easily adapted on site and shortened every 0.6m. In addition, they are also available completely assembled and ready for operation ex works. The control of the lines is done with an external temperature controller (e.g. controller ST49 or controller DC-10) via the integrated PT100 to max. 200°C.



- Division in 2x 60/120/180 cm long heated sample lines at the end of line
- ✓ PSG-Plus parallel heating cable
- ✓ Max. 200°C control temperature
- ✓ Up to 73m at a stretch
- ✓ Every 0,6 m shortenable for assembly on site (video tutorial on You Tube) or ready made ex works
  - Robust design with thick-walled
- extruded, flame resistant, extremely weather resistant PVC, PE or TPU outer jacket
- ✓ 2 internal tube made of PTFE, PFA,
- Additional internal lines possible (e.g. for instrument air for backflushing)
- Also available as hybrid line with additional power and sensor cable



## Technical Data and order number

Construction data		
Max. operating temperature	°C	200
Heat insulation / weight	kg/m	Thermal fleece/ 1
Insulation thickness	mm	10
Heating cable type		Parallel heating cable CPD Plus
Length of the 2 extraction strands	cm	60, 120 or 180 (according to customer requirements)
Outer jacket		2mm PVC, PE or TPU extruded
Outer diameter	mm	43
Min. bending radius	mm	8 - 10 x outer diameter
Ambient temperature	°C	-20 bis +65
Max. operating pressure abs. PTFE line	bar	DN4/6: 5,6 / DN6/8: 4,5
Protection class		IP64 (EN60529)
Max. length heating circuit	m	73
Electrical data		
Power	W/m	60
Electrical connection		3 m silicone connection cable, open ends (included in assembly)
Power supply		230V 50/60Hz
Order number and options		
2x6x1mm PTFE with PVC jacket		50030500
Y-division with 2x 0,6m long sample line with silicon caps PSG assembly ex works		50087042
Silicone cap ending with electr. connection PSG assembly ex works		50085532
Silicone cap ending with electr. connection Shrink cap for assembly on site		50085632
PT100 for assembly ex works		50061200
PT100 set for assembly on site		50050153
M63 cable gland Mounted on the heated line		80040358

