FDS.A



Durchflussbereich von 0 bis 100 m/s, -20 °C bis +150 °C

Gasdurchflusssensor mit entkoppelter Heizung und Temperaturelementen.
Abmessungen des Hotmelt-Gehäuses und Elementwiderstände identisch mit FS7.
Kompatibel mit dem iST Flow-Demo-Board.

- Langzeitstabiler und robuster thermischer Durchflusssensor
- Einfach zu integrieren

Product Name: FDS.A.1L.195
Measured medium: Gasströmung
Flow direction: Eine Richtung (anemometrisch)
Operating temperature range: -20 °C bis +150 °C
Chip size/dimensions: ø6 x 14 mm Gehäuse 4 x 2.4 (Chips ausserhalb Gehäuse)
Connection type: Cu/Ag-Litzendrähte AWG 30/7, PTFE-isoliert, 2x rot für Heizung, 2x schwarz für Temperatur
Wire dimensions: 195 mm lang (ab Gehäusekante), 5 mm abisoliert

Flow range full bridge mode: 0 bis 100 m/s
Flow range CTA mode: 0/ms bis 100 m/s
Response time t63: ~200 ms (Sprung von 0 auf 10000 sccm)
Response sensitivity: 0.01 m/s
Substrate: Keramik
Product code: 155846

Product details

Benefits & Characteristics of the FDS.A gas flow sensor

- Minimized cross-talk for high sensitivity at low flow rates
- Excellent long-term stability with proven thin-film platinum technology
- High reliability with no moving parts
- Suitable for various technical gases and industrial applications
- Easy fluidic and electronic integration
- Simple calibration and excellent reproducibility over a wide dynamic range

The FS gas flow sensor family

iST`s FS thermal mass flow sensors combine high sensitivity from low flow rates with an wide measuring range and a relatively fast response time. Heating and temperature sensing structures with a protective glas coating are combined on a compact ceramic chip to allow easy assembly into various flow channel geometries. This along with the superior reliability of anemometric gas flow measurement makes iST`s FS sensors ideal components for high reliability applications including medical gas flow monitoring, industrial gas dosing systems or continuous filter performance evaluation. Custom adaptations and housing assembly options are available to support industrialized sensor production.

Quality

Consistent with the well-known, high-quality standards in Switzerland, iST is certified according to ISO 9001:2015 (quality) and ISO 14001:2015 (environment). Appropriate processes are part of our daily work. They are regularly audited and extended parallel to the growth of our company.

> Read more

The online shop

Quantity (pieces)	Price (per piece)
1-9	CHF 40.69
10-49	CHF 28.33
50-100	CHF 25.24

Lager: **0**