DATASHEET WHICH GASES ARE EMBEDDED IN THE EL-FLOW® PRESTIGE MASS FLOW METER/CONTROLLER?

Which gases are embedded in the EL-FLOW® Prestige mass flow meter/controller?

Gas properties vary with temperature and pressure changes. The <u>EL-FLOW Prestige</u> thermal mass flow meter/controller uses the actual measured temperature (and pressure if applicable) for the real-time on-board calculation of the fluid properties. For this reason, the <u>EL-FLOW Prestige</u> mass flow meters and controllers have a database with gas properties embedded in the instrument ("Fluidat-On-Board"). The instrument embeds the following gases:

Embedded gases in the EL-FLOW® Prestige thermal mass flow meter/controller

| EL-FLOW [®] Prestige models built until Dec. 2018 | | EL-FLOW [®] I | EL-FLOW [®] Prestige models built from Jan. 2019 | | | |
|---|----------------------|------------------------|---|---------|-----------------------|--|
| Formula | Name | Formula | Name | Formula | Name | |
| Air | Air | Air | Air | CH3CI | Chloromethane | |
| Ar | Argon | Ar | Argon | CH3F | Fluoromethane | |
| C2F6 | Freon-116 | AsH3 | Arsine | CH4 | Methane | |
| C2H2 | Acetylene | B2H6 | Diborane | CH4S | Methanethiol | |
| C2H4 | Ethene | BCI3 | Boron trichloride | CH5N | Aminomethane | |
| C2H6 | Ethane | BF3 | Boron trifluoride | CHCl2F | Dichlorofluoromethane | |
| C3H6 #2 | Propene | C2Cl2F4 #2 | Freon-114 | CHCIF2 | Chlorodifluoromethane | |
| C3H8 | Propane | C2Cl3F3 | Freon-113 | CHF3 | Freon-23 | |
| CH4 | Methane | C2CIF5 | Freon-115 | Cl2 | Chlorine | |
| Cl2 | Chlorine | C2F4 | Perfluoroethene | CICN | Cyanogen Chloride | |
| СО | Carbon monoxide | C2F6 | Freon-116 | CIF3 | Chlorine trifluoride | |
| CO2 | Carbon dioxide | C2H2 | Acetylene | CO | Carbon monoxide | |
| H2 | Hydrogen | C2H2F2 #1 | Freon-1132A | CO2 | Carbon dioxide | |
| H2S | Hydrogen Sulfide | C2H3Br | Vinyl Bromide | COCI2 | Carbon oxychloride | |
| He | Helium | C2H3Cl | Chloroethene | COF2 | Carbonylfluoride | |
| Kr | Krypton | C2H3F | Fluoroethene | COS | Carbon Oxysulfide | |
| N2 | Nitrogen | C2H4 | Ethene | CS2 | Carbon disulfide | |
| N2O | Nitrous Oxide | C2H4O #2 | Epoxyethane | D2 #1 | Deuterium | |
| NF3 | Nitrogen trifluoride | C2H5Cl | Chloroethane | F2 | Fluorine | |
| NH3 | Ammonia | C2H6 | Ethane | GeH4 | Germane | |
| NO | Nitric Oxide | C2H6O #1 | Dimethyl ether | H2 | Hydrogen | |
| O2 | Oxygen | C2H7N #2 | Dimethylamine | H2S | Hydrogen Sulfide | |
| SF6 | Sulfur hexafluoride | C2H7N #3 | Monoethylamine | H2Se | Hydrogen Selenide | |
| SiH4 | Silane | C2N2 | Cyanogen | HBr | Hydrogen Bromide | |

EL-FLOW® Prestige models built until Dec. 2018

EL-FLOW Prestige models built from Jan. 2019

| C3H4#1 Allene HCN Hydro C3H4#2 Methylacetylene He Heliun | gen Chloride gen Cyanide |
|--|-----------------------------|
| C3H4 #2 Methylacetylene He Heliun | · . |
| | n |
| C3H6#1 Cyclopropane HF Hydro | |
| 25.15.1. 27.10p.10p.11.2 | gen Fluoride |
| C3H6#2 Propene HI Hydro | gen iodide |
| C3H8 Propane Kr Krypto | on |
| | odenum uoride |
| C4F8 Freon-C318 N2 Nitrog | gen |
| C4H10 #1 n-Butane N2O Nitrou | ıs Oxide |
| C4H10 #2 Isobutane Ne Neon | |
| C4H6#3 1,3-Butadiene NF3 Nitrog | gen trifluoride |
| C4H6#4 1-Butyne NH3 Ammo | onia |
| C4H8 #1 Cyclobutane NO Nitric G | Oxide |
| C4H8#2 1-Butene O2 Oxyge | en |
| C4H8 #3 Butene (2-) (cis) OF2 Oxyge | en difluoride |
| C4H8 #4 Butene (2-) (trans) PH3 Phosp | hine |
| C4H8 #5 2-Methylpropene SF4 Sulfur | tetrafluoride |
| C5H12 #2 2,2-Dimethyl Propane SF6 Sulfur | hexafluoride |
| C5H12 #3 n-Pentane Si2H6 Disilar | ne |
| CBr2F2 Dibromodifluoromethane SiH2Cl2 Dichlo | orosilane |
| CBrF3 Bromotrifluoromethane SiH4 Silane | |
| CCI2F2 Dichlorodifluoromethane SiHCI3 Trichlo | orosilane |
| CCI3F Fluorotrichloromethane SO2 Sulfur | dioxide |
| CCIF3 Chlorotrifluoromethane WF6 Tungs | ten hexafluoride |
| CF4 Carbon tetrafluoride Xe Xenon | 1 |
| CH3Br Bromomethane | |



Bronkhorst High-Tech designs and manufactures innovative instruments and subsystems for low-flow measurement and control for use in laboratories, machinery and industry. Driven by a strong sense of sustainability and with many years of experience, we offer an extensive range of (mass) flow meters and controllers for gases and liquids, based on thermal, Coriolis and ultrasonic measuring principles. Our global sales and service network provides local support in more than 40 countries. Discover Bronkhorst*!