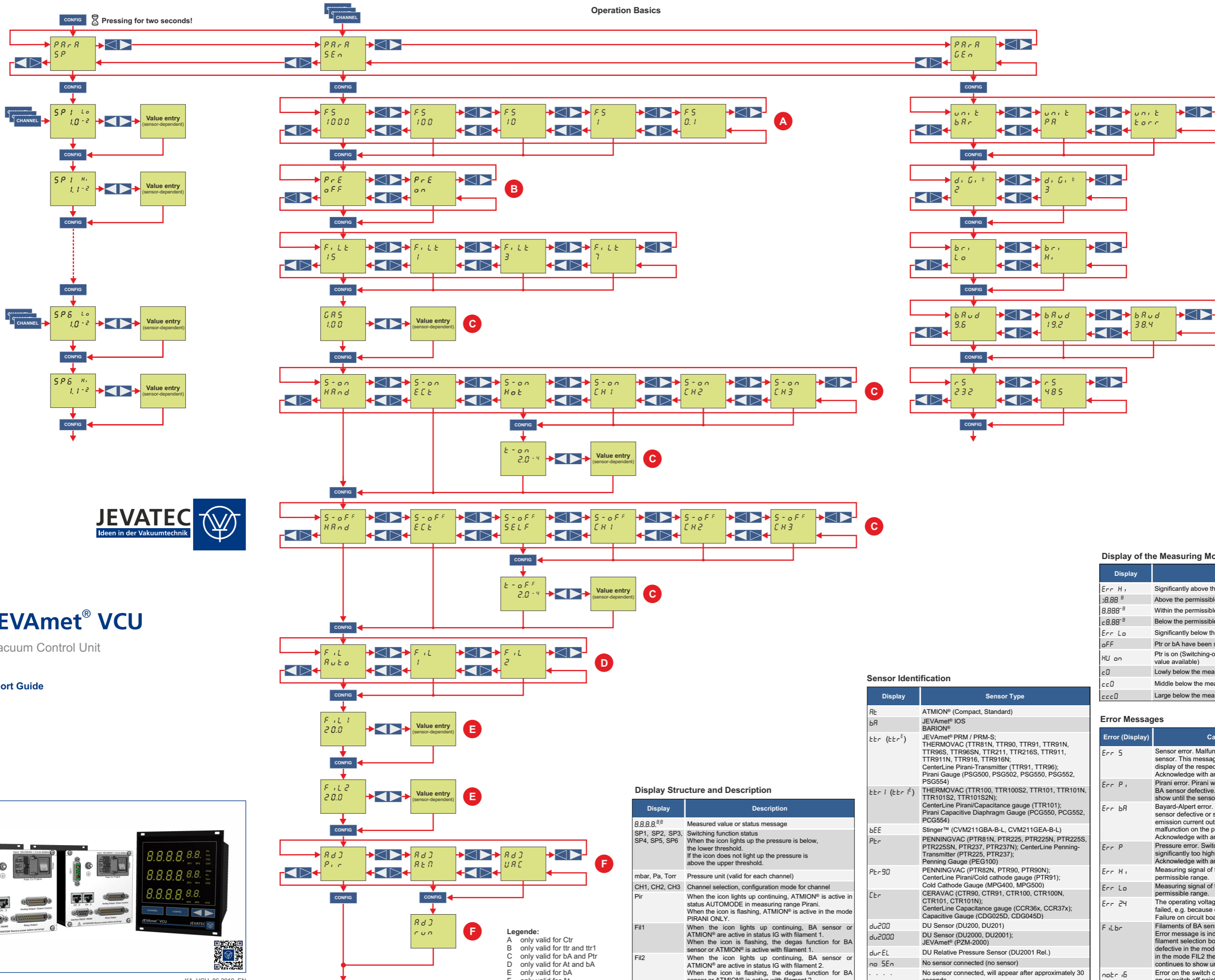


Operation Basics



JEVAmec® VCU

Vacuum Control Unit

Short Guide



KA_VCU_06.2019_EN

Legende:
 A only valid for Ctr
 B only valid for ttr and ttr1
 C only valid for bA and Ptr
 D only valid for At and bA
 E only valid for bA
 F only valid for At

Display Structure and Description

Display	Description
8.8.8.8 ⁰⁰	Measured value or status message
SP1, SP2, SP3, SP4, SP5, SP6	Switching function status When the icon lights up the pressure is below, the lower threshold. If the icon does not light up the pressure is above the upper threshold.
mbar, Pa, Torr	Pressure unit (valid for each channel)
CH1, CH2, CH3	Channel selection, configuration mode for channel
Pir	When the icon lights up continuing, ATMION® is active in status AUTOMODE in measuring range Pirani. When the icon is flashing, ATMION® is active in the mode PIRANI ONLY.
Fil1	When the icon lights up continuing, BA sensor or ATMION® are active in status IG with filament 1. When the icon is flashing, the degas function for BA sensor or ATMION® is active with filament 1.
Fil2	When the icon lights up continuing, BA sensor or ATMION® are active in status IG with filament 2. When the icon is flashing, the degas function for BA sensor or ATMION® is active with filament 2.

Sensor Identification

Display	Sensor Type
Rt	ATMION® (Compact, Standard)
bA	JEVAmec® IOS BARION®
ttr (ttr ^f)	JEVAmec® PRM / PRM-S; THERMOVAC (TTR81N, TTR90, TTR91, TTR91N, TTR96S, TTR96SN, TTR211, TTR216S, TTR911, TTR911N, TTR916, TTR916N; CenterLine Pirani-Transmitter (TTR91, TTR96); Pirani Capacitive Diaphragm Gauge (PCG550, PCG552, PCG554)
ttr1 (ttr ^f)	THERMOVAC (TTR100, TTR100S2, TTR101, TTR101N, TTR101S2, TTR101S2N); CenterLine Pirani/Capacitance gauge (TTR101); Pirani Capacitive Diaphragm Gauge (PCG550, PCG552, PCG554)
bEE	Slinger™ (CVM211GBA-B-L, CVM211GEA-B-L)
Ptr	PENNINGVAC (PTR81N, PTR225, PTR225N, PTR225S, PTR225SN, PTR237, PTR237N); CenterLine Penning-Transmitter (PTR225, PTR237); Penning Gauge (PEG100)
Ptr90	PENNINGVAC (PTR82N, PTR90, PTR90N); CenterLine Pirani/Cold cathode gauge (PTR91); Cold Cathode Gauge (MPG400, MPG500)
ctr	CERAVAC (CTR90, CTR91, CTR100, CTR100N, CTR101, CTR101N); CenterLine Capacitance gauge (CCR36x, CCR37x); Capacitive Gauge (CDG025D, CDG045D)
du200	DU Sensor (DU200, DU201)
du2000	DU Sensor (DU2000, DU2001); JEVAmec® (PZM-2000)
durEL	DU Relative Pressure Sensor (DU2001 Rel.)
no 5En	No sensor connected (no sensor)
...	No sensor connected, will appear after approximately 30 seconds

Display of the Measuring Mode

Display	Pressure
Err H _i	Significantly above the permissible range
8.8.8.8 ⁰⁰	Above the permissible range
8.8.8.8 ⁰⁰	Within the permissible range
8.8.8.8 ⁰⁰	Below the permissible range (DU Sensors excluded)
Err L _o	Significantly below the permissible range
oFF	Ptr or bA have been switched off
HU on	Ptr is on (Switching-on procedure, still no valid measured value available)
c0	Lowly below the measurement range (DU Sensors only)
ccc0	Middle below the measurement range (DU Sensors only)
ccc0	Large below the measurement range (DU Sensors only)

Error Messages

Error (Display)	Cause and Remedy
Err 5	Sensor error. Malfunction in the connection to the sensor. This message will only be displayed on the display of the respective measuring channel. Acknowledge with any key.
Err P _i	Pirani error. Pirani wire of the ATMION® sensor or the BA sensor defective. The error message continues to show until the sensor has been replaced.
Err bA	Bayard-Alpert error. Both filaments of the ATMION® sensor defective or short circuit in the BA sensor or emission current outside the permissible range or malfunction on the plug module of the BA sensor. Acknowledge with any key.
Err P	Pressure error. Switch off of the BA sensor due to significantly too high pressure value. Acknowledge with any key.
Err H _i	Measuring signal of the sensor significantly above the permissible range.
Err L _o	Measuring signal of the sensor significantly below the permissible range.
Err 24	The operating voltage for the corresponding sensor failed, e.g. because of an external short circuit. Failure on circuit board for BA sensor (Channel 1)
Filbr	Filaments of BA sensor defect. Error message is indicated, if in the mode AUTO of filament selection both filaments are defective or is defective in the mode FIL1 the filament 1 or is defective in the mode FIL2 the filament 2. The error message continues to show until the sensor has been replaced.
no tr 15	Error on the switch on or switch off channel. No switch on or switch off point for bA or Ptr available.