AViTEQ

DIGITAL CONTROL TECHNOLOGY

Our intelligent solution

DIGITAL CONTROLLER FROM AViTEQ

One programmable controller for all needs.

In most cases, electromagnetic vibrators are operated via a separate controller. This can be a simple, analogue or a smart, digital thyristor or frequency controller. Our digital controllers (type SD... and SFA...) can be used for AViTEQ electromagnetic vibrators as well as for other manufacturers. ONE for ALL.

As many features as you need.

- Individual and convenient parameterisation via a digital portal
- Stable, mains fluctuation-resistant operation thanks to output voltage regulation
- Precise process adjustment thanks to oscillation width adjustment, proportional to the setpoint
- Includes pre-programming of the specific parameters of all AViTEQ drives via a selection table
- High level of flexibility thanks to freely a configurable soft start circuit
- Precise adjustment of the output voltage digitally via the portal or via a potentiometer
- Individual configuration via software for master/slave operation with multiple drives and reversing operation
- Greater operational reliability and optimisation of operating behaviour, thanks to integrated temperature, current and vibration width monitoring with additional stop protection for the drives (depending on the type of drive)

Ready for Automation technology.

- Simple integration of vibration feeders into system automation, thanks to control via analogue and digital connections and Ethernet/LAN serial interface
- Integrated relay output for remote monitoring or linking to the higher-level automation technology, universally designed as changeover contact
- Multiple releases optionally via switch (permanent or changeover contact, potential-free) or voltage signal (+24 VDC)
- External reference variables optional: 0-10 VDC, 0-20 mA or 4-20 mA (switchable)
- LED for displaying the operating status directly on the controller

Flexible. And works everywhere.

- Can be used in 50Hz and 60Hz networks
- Vibrations frequencies from 25 - 120 Hz Mains voltages from 100 to 600V
- Compact housing for minimum space requirements
- Numerous adjustable parameters for customised adaptation to suit the customer

Technology and service: only the best.

- Digital historization of errors for quick problem solving by AViTEQ
- Saving and reading in set parameter data
- Downtime minimised due to stock availability at AViTEQ
- Application advice and service hotline
- On-site Service technicians
- In-house repairs service

FOR OUR LIGHTWEIGHTS

Controller up to 6A and Gateway

SDE06/GW-2 SDE06/...-2

FOR OUR HEAVYWEIGHTS

Controller up to 15/25/50A

SDE15/...-2 SDE25/...-2 SDE50/...-2

	SDE06/...-2 SDE06/GW-2 (optional)	SDE15/...-2	SDE25/...-2	SDE50/...-2
Mains frequencies	50 Hz and 60 Hz			
Vibration frequencies with 50Hz mains	25, 33, 50 and 100 Hz			
Vibration frequencies with 60Hz mains	30, 40, 60 and 120 Hz			
Mains voltage	100-250V	100-250V	100-250V	
	-	380-600V	380-600V	380-600V
Limit current, max	6A	15A	25A	50A
Setpoint specification	Poti, 0-10 VDC, 0-20 mA or 4-20 mA (switchable)			
Ambient temperature	built-in version -5 up to +45 °C			
Protection class	built-in version: IP 20 housing version: IP 55 on request			
Dimensions (W x H x D)	45x115.5x110 mm (GW: 22.5x115.5x110 mm)	75x244x194 mm	80x244x194 mm	141x250x194 mm
Weight	288 g (GW: 102 g)	2,2 kg	2,6 kg	4,2 kg
Betriebsarten	Single-mode operating modes (B x H x D): Voltage pre-control or vibration amplitude control Master-slave: Reverse or parallel mode			
Additional function	· adjustable soft start · With fill level control/exchange circuit			
Approvals/conformity	CE marking in accordance with Low Voltage Directive 2014/35/EU CSA/UL (in planning)			
Permissible tolerances	Mains voltage: +/-10.0%			
	Mains frequency: +/-0.5%			
Connections (data)	· Analogue and digital · Ethernet (only in conjunction with gate-way SDE06/GW-2) · USB-A for software & parameter update	· Analogue and digital · Ethernet/LAN socket 100BaseT with Auto-MDI (RJ45 socket) · USB-A for software & parameter updates · ViCAN socket (2x)		

FOR OUR VERY FLEXIBLE LIGHTWEIGHTS

Frequency control up to 6A (optionally up to 10A)

SFA06/08-...-3

Energy efficient

Applicable worldwide

A few simple steps to commissioning:

1. Connect the SFAE06/08 control unit and attach the acceleration sensor. Plug in the connector for the acceleration sensor, mains and magnet.
2. Set the desired acceleration, e.g. via the quick selection button '+'
3. Start device 'RUN'

HIGHLIGHTS

- Very energy-efficient compared to the market alternatives
- Can be used worldwide: Multi-voltage input and independent of mains frequency
- Once mechanical basic tuning of the spring system has been completed, manual fine tuning is not necessary
- This means that other pots and troughs can be changed quickly without mechanical adjustment
- Spring breakage detection
- Operation via display and buttons or via PC (RS485 interface)
- Continuous readjustment of the optimum output frequency and voltage
- Adjustable overload protection for the solenoid coils
- Covers a wide range of desired functions thanks to individually assignable inputs and outputs
- Constant acceleration with mains voltage fluctuations
- Saving and importing parameter data via AVFI software

Additional options:
Master-slave operation, 10A version with heat sink, Sensor made of Stainless Steel

PARAMETERS	VALUE
Mains voltage	100/240V +-10%
Oscillation frequency	5-300Hz
Limit current	6/10A with additional heat sink
Output power	1200/2000VA
Inputs	5 (freely configurable: analogue or digital)
Outputs	4 (digital) x 24V + potential-free NO contact
Power supply for external consumers	24 V, 100 mA
Ambient temperature	0 up to +40°C
Storage temperature	-10 up to +80°C
Humidity	max. 80%, non-condensing
Fieldbus interfaces	on request: Profinet, Ethernet IP
Interface	optional RS485
Protection class	IP54

MAGNETIC VIBRATOR TECHNOLOGY

Magnetic vibrators

Almost all bulk materials can be conveyed by vibratory conveyors driven, by magnetic vibrators. High conveying capacity with small device cross-sections, long service life, robust design and low power consumption - these are the positive features of AViTEQ magnetic technology.

Magnetic vibrators allow the flow rate to be continuously adjusted during operation. They reach full conveying capacity immediately after being switched on. Switching off takes place in fractions of a second and stops the flow rate immediately. And all this with an almost unlimited service life, wear-free and without additional moving parts. The electrical connection of our magnetic vibrators is made with the appropriate control unit.

TECHNICAL FEATURES

Vibration frequency:	25, 33, 50, 100 Hz in the 50 Hz network 30, 40, 60, 120 Hz in the 60 Hz network
Conveying flow:	from a few kg/h to over a thousand t/h
Useful weight:	2,5 – 1,800 kg
Mains frequency:	alternating current (50 or 60 Hz)
Mains voltages::	230, 400, 500 V / 220, 380, 440, 480 V (special voltages optionally available)
Ambient temperature:	-20 °C to + 40 °C (lower and higher temperatures possible)
Standard protection class*:	IP 55 according to DIN EN 60529 Optional: tropicalized insulation, special paint finish, forced ventilation, temperature switch (on request)

* different protection class for different types of magnetic vibrators

OUR SAFETY STANDARDS

COMPACT/LINEAR VIBRATOR TECHNOLOGY

Small conveyor/dosing drives

AViTEQ's product portfolio of small conveyor drives are divided into two groups whose properties are tailored to different applications:

The KF 1, KF 6, KF 12 and KF 24 device group are primarily suitable for discharging and conveying bulk materials. This includes the feeding of components into mixing/weighing systems. The small-parts conveyor drive is fitted with a corresponding tube or trough for this purpose. The KF 1, KF 6, KF 12 and KF 24 small conveying devices, which are type-tested, can be used in potentially explosive atmospheres in accordance with Directive 94/9EG (ATEX).

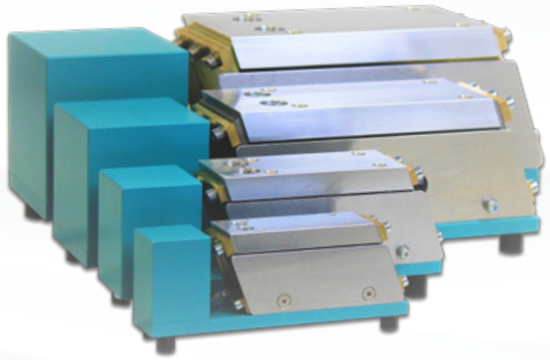
The second device group KF 0.3, KF 0.5, KF 0.7 and KF 0.9 are primarily used as a drive for tracks/rails for conveying organized parts. A practical example is the transport or accumulation section between a parts conveyor and a downstream machine. For this purpose, a conveyor rail is mounted on the drive that fits the transported goods perfectly. The small-parts conveyor drives in the CR version are unpainted, easy to clean and resistant to UV light, alcohol and formalin. They are also suitable for use in sterile areas.

TECHNICAL FEATURES

Vibration frequency:	25, 50, 100 Hz in the 50 Hz network 30, 60, 120 Hz in the 60 Hz network
Conveying flow:	from a few kg/h to over 50 t/h
Useful weight:	0,3 – 45 kg
Mains frequency:	alternating current (50 or 60 Hz)
Mains voltages:	42, 110, 230, 400 V (special voltages optionally possible)
Ambient temperature:	-20 °C to + 40 °C (lower and higher temperatures possible)
Standard protection class*:	IP 55 according to DIN EN 60529 Optional: tropicalized insulation, special paint finish, stainless steel version, various coatings (on request)

* different protection class for different types of compact vibrator drive

OUR SAFETY STANDARDS



WE ARE THERE FOR YOU

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