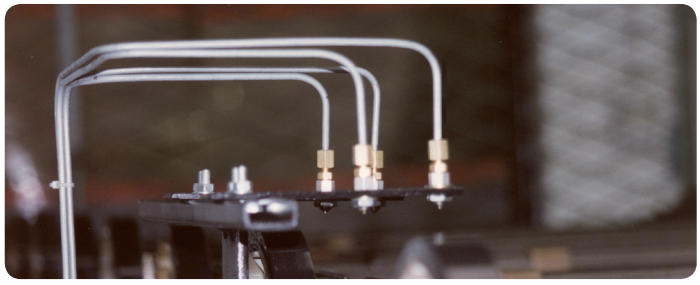
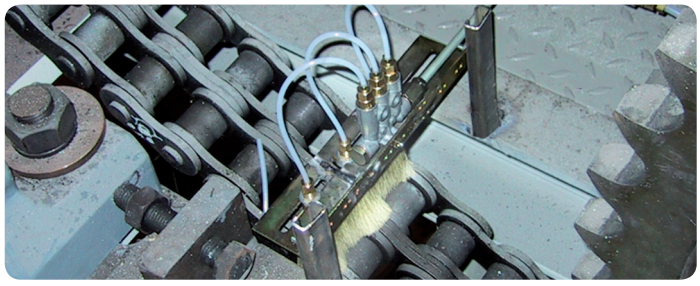
AEC-UC

Control unit for oil lubrication systems type UC dedicated to the conveyor chain lubrication





- For lubrication system using nozzles or oiling brushes
- For one or two independent lubrication cycles
- Time- or pulse-dependent control of the lubrication and pause phases
- Parameter setting of the control unit directly on a computer
- Communication between several control units via different fieldbuses

Lubrication parameters

The lubrication cycle

The lubrication cycle consists of the lubrication phase followed by the pause phase.

The lubrication phase

The lubrication phase corresponds to the effective lubrication of the chain. The control unit triggers the lubrication phase, which is time- or pulse-dependent. The user sets this parameter.

The lubrication pitch

The lubrication pitch corresponds to the lubrication frequency. It is possible to lubricate the lubrication points one after the other or to lubricate one point every 'X' number of points..

Pause phase

The pause phase is the time between two lubrication phases. The pause phase can be set in two different operating modes (time- or pulse dependent).

Time-dependent operating mode

With this mode the length of the phase (lubrication or pause) is determined by the control unit, which triggers a new phase at intervals specified by the user.

Pulse-dependent operating mode

In this mode, the length of the phase (lubrication or pause) is determined by the machine, which sends pulses to the control unit. The control unit counts the pulses it receives, and a new phase is triggered after a preset number of pulses, specified by the user.

Lubricant level monitoring

The control unit can also monitor the lubricant minimal level in the reservoir of the lubrication system with the help of a level switch. As soon as the lubricant drops below the minimal level, the current lubrication cycle is stopped and a fault signal is emitted.

AEC-UC versions

AEC-UC-1: Designed for lubrication system with nozzles. Two independent lubrication cycles. Cycle 1: pulse-dependent lubrication and time- or pulse-dependent pause; cycle 2: pulse-dependent lubrication and time- or pulse-dependent pause. Min. level monitoring.

AEC-UC-2: Designed for lubrication system with nozzles. Two independent lubrication cycles. Cycle 1: pulse-dependent lubrication and time- or pulse-dependent pause; cycle 2: time- or pulse-dependent lubrication and pause. Min. level monitoring.

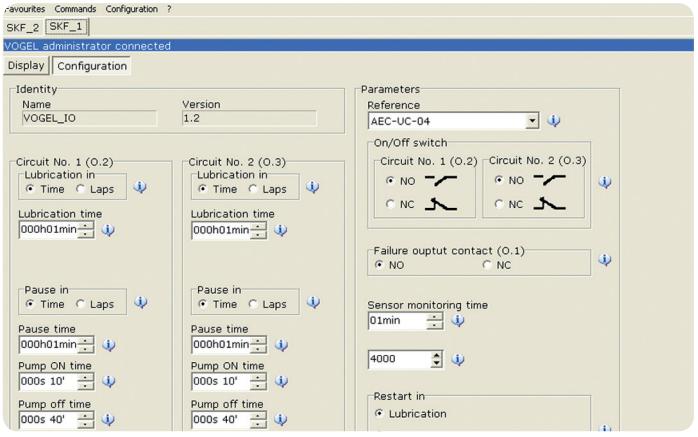
AEC-UC-3: Designed for lubrication system with nozzles. Two independent lubrication cycles. Cycle 1: pulse-dependent lubrication and pause; cycle 2: pulse-dependent lubrication and pause. Min. level monitoring.

AEC-UC-4: Designed for lubrication system with oiling brushes. Two independent lubrication cycles. Cycle 1: time-dependent lubrication and pause; cycle 2: time-dependent lubrication and pause. Min. level monitoring.

Programming software for AEC unit

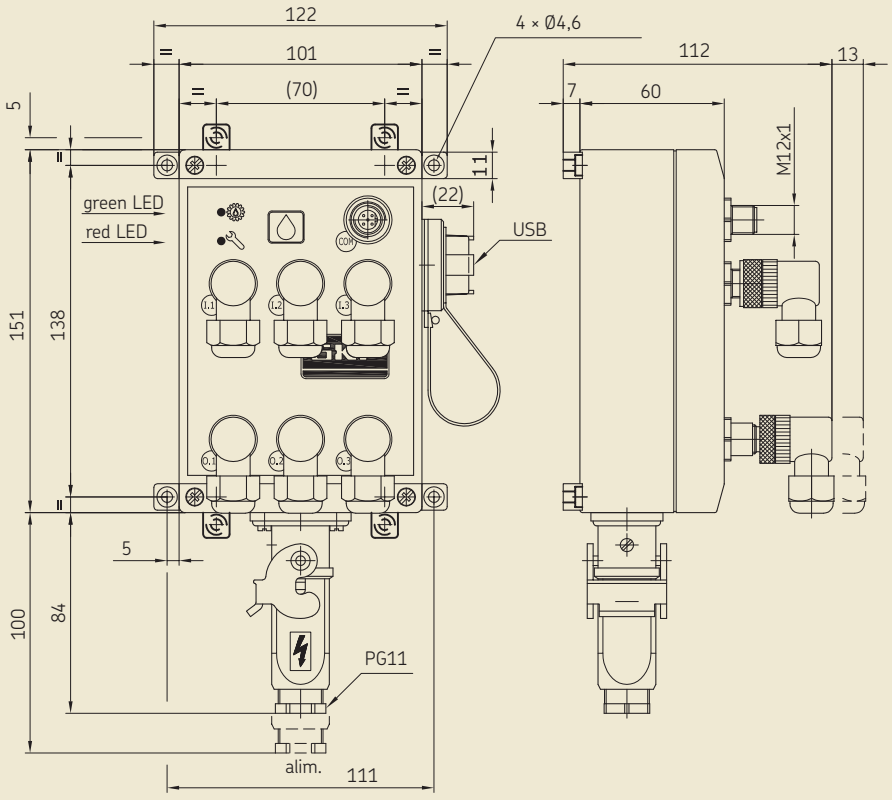
The user sets the different parameters of the control unit AEC directly on computer. With the software AEC-SOFT the user can follow in real time the evolution of the different lubrication cycles. The user also receives information on events occurring during the lubrication cycle.

The software and the connection cable (A/B USB cable) are delivered with the control unit.



See important product usage information on the back cover.

AEC-UC



Technical data

Power supply	115 V AC, 50/60 Hz 230 V AC, 50/60 Hz 24 V DC
Consumption	5,5 A for 115 and 230 V AC 1 W for 24 V DC
Inputs	3
Current [I]	15 mA
Voltage [U]	24 V DC
Outputs	3
Relay output	1
Current [I]	4 A max.
Voltage [U]	250 V AC max.
Static outputs	2
115 V AC.	I max. 2 A, U max. 250 V AC
230 V AC.	I max. 2 A, U max. 250 V AC
24 V DC	I max. 4 A, U max. 30 V AC
Protection	IP65
Service temperature	0 to 40 °C
Housing material	ABS
Color	light grey, RAL 7035
Weight	875 g
Connectors (delivered with the control unit)	
Power supply connector	square 24, female
Input connector	screw M12×1, round, female
Output connector	screw M12×1, round, male
Connectors (not delivered with the control unit)	
Communication connector	screw M12×1, round, female

Order information

Control unit AEC-UC

	Communication mode		
Order No.* **	Modbus	Profibus	CANopen
AEC-UC-1-001	•		
AEC-UC-1-002		•	
AEC-UC-1-003			•
AEC-UC-2-001	•		
AEC-UC-2-002		•	
AEC-UC-2-003			•
AEC-UC-3-001	•		
AEC-UC-3-002		•	
AEC-UC-3-003			•
AEC-UC-4-001	•		
AEC-UC-4-002		•	
AEC-UC-4-003			•

**) Please refer to the table "AEC-UC versions" to know the different versions*
***) Please indicate the voltage key when ordering:* **+428** *for 230 V AC, 50/60 Hz,* **+429** *for 115 V AC, 50/60 Hz,* **+924** *for 24 V DC*

Communication connector
Order No. **AC.4142.2**

Order No.: 1-4303-EN
Subject to change without notice! (04/2009)

Important product usage information
All products from SKF may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products, they must be read and followed.
Not all lubricants are suitable for use in centralized lubrication systems. SKF does offer an inspection service to test customer supplied lubricant to determine if it can be used in a centralized system. SKF lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1013 mbars) by more than 0,5 bar at their maximum permissible temperature.
Hazardous materials of any kind, especially the materials classified as hazardous by European Community Directive EC 67/548/EEC, Article 2, Par. 2, may only be used to fill SKF centralized lubrication systems and components and delivered and/or distributed with the same after consulting with and receiving written approval from SKF.

Further brochures
1-9201-EN Transport of Lubricants in Centralized Lubrication Systems

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