Modbus INT69 PYF
xx A 721 (intern)

Register can be read using Function code 4 (Read Input Register)

Start	End	Type	Description
8192	8192	u 16bit	High Byte: Visu-ID Low Byte: reserved
8193	8193	u 16bit	High (12bit): part number Low (4bit):reserved
8194	8195	u 32bit	Continuous serial number within the article number Low word first
8198	8198	u 16bit	error Messages Bit 0: 0 = no error , 1 = at least one error is current appending
8199	8199	u 16bit	Operating state Bit 0 - motor status: 1=motor is running Bit 6 - alarm relay Bit 7 - warning relay Bit 8 - reset input Bit 9 - reset button { 1=active}
8206	8206	u 16bit	High Byte: Major Software Revision Number Low Byte: Minor Software Revision Number
8207	8207	u 16bit	Function Description 0 = Engineering Sample 1.9 = variant 99 = Bootloader
8210	8210	u 16bit	Variants to Articles Number if value < 10000 "S" [value] if value > 10000 "P" [value - 10000]
8211	8211	u 16bit	voltage key 13=24V DC 20=24V AC/DC 22=115-230V AC 31=24V AC 41=115V AC 52=230V AC
8212	8213	u 32bit	Total error shutdowns Low word first
8214	8215	u 32bit	Total number of pump starts Low word first
8216	8216	u 16bit	Current hour period in seconds (internal time) 0…3599 seconds

Start	End	Type	Description
8217	8217	u 16bit	Residual delay time estimated time period until the compressor can be switched on again 0..65533 sec 65.535 = Locked switch off 65.534 = indefinite time
8218	8219	u 32bit	Time stamp Seconds from 01.01.1970 00:00:00 POSIX format
8220	8221	u 32bit	Time stamp of the last operational switching Seconds from 01.01.1970 00:00:00 POSIX format
8228	8228	u 16bit	Number of hours of the current day (internal time) 0-23h
8229	8229	u 16bit	Runtime to service
8232	8232	u 16bit	Module status engine temperature High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8233	8233	u 16bit	motor sensor ohmic value 1…65 535Ω, 0 = not present
8234	8234	u 16bit	Module state temperature 1 High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8235	8235	u 16bit	Temperatur sensor 1 ohmic value 1…65 535Ω, 0 = not present
8236	8236	u 16bit	Module state temperature 2 High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8237	8237	u 16bit	Temperatur sensor 2 ohmic value 1-65535Ω, 0 = not present

Start	End	Type	Description
8238	8238	u 16bit	Module status leakage 1 High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8239	8239	u 16bit	Leakage 1 ohmic value 1…65535kΩ, 0 = not present
8242	8242	u 16bit	Module status analog input High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8243	8243	u 16bit	Analog input value Current = value / 10 0.0… 6553.5mA
8244	8244	u 16bit	Module status current sensor 1 High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8245	8245	u 16bit	Motor current actual value phase 1 Current = value * 10mA 0,01…655,35A
8246	8246	u 16bit	Module status Cosϕ monitoring High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8247	8247	s 16bit	Cosϕ actual value Cosϕ = value / 100 -1,00 ... + 1,00

Start	End	Type	Description
8248	8248	u 16bit	Phase sequence module state: The phase sequence is monitored for 5s after the engine start is detected. If the phase sequence is correct, it is only checked again the next time the engine is started. High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8249	8249	u 16bit	Module status FU monitoring High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8250	8250	u 16bit	Module status phase failure High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8251	8251	u 16bit	Module status phase asymmetry High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8252	8252	u 16bit	Module status phase undervoltage High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8253	8253	u 16bit	Module status phases overvoltage High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out

Start	End	Type	Description
8254	8254	u 16bit	Module status relay monitoring High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8255	8255	u 16bit	Pump runtime while "operation despite shutdown" was recognized time = value * 10min 0…655 350min
8256	8256	u 16bit	Module status switching frequency monitoring High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8258	8258	u 16bit	Module status General monitoring High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8259	8259	u 16bit	Module status self-monitoring sensor unit High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8260	8260	u 16bit	Module status switching input High Byte: actual status according error list Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = time delay active Bit 4 = locked out
8268	8269	u 32bit	Operating time Operating time = value * 10 min 0…4 294 967 296 min Low word first
8270	8271	u 32bit	Operating time in warning state Operating time = value * 10 min 0…4 294 967 296 min Low word first

Start	End	Type	Description
8274	8275	u 32bit	Downtime Downtime = value * 10 min 0…4 294 967 296 min Low word first
8292	8292	s 16offset	motor temperature actual value Only possible for sensor types Pt100 and Pt1000. Temperature = (value - 32768) / 100 -327,00 ° C … + 327,00 ° C
8294	8294	s 16offset	Temperature sensor 1 actual value Only possible for sensor types Pt100 and Pt1000. Temperature = (value - 32768) / 100 -327,00 ° C … + 327,00 ° C 65535 = not available
8295	8295	s 16offset	Temperature sensor 2 actual value Only possible for sensor types Pt100 and Pt1000. Temperature = (value - 32768) / 100 -327,00 ° C … + 327,00 ° C 65535 = not available
8296	8296	u 16bit	Phase voltage L1 0…65535 V
8297	8297	u 16bit	Phase voltage L2 0…65535 V
8298	8298	u 16bit	Phase voltage L3 0…65535 V
8299	8299	u 16bit	Mean frequency between L1 and L2 3 … 65535 Motor frequency in Hz 0 = not used 1 = frequency 0Hz 2 = wrong phase sequence
8300	8301	u 32bit	Reactive power actual value 0… 4,294,967,295 var Low word first
8302	8303	u 32bit	Active power actual value 0… 4,294,967,295 W Low word first
8304	8305	u 32bit	Apparent power actual value 0… 4,294,967,295 VA Low word first
8306	8307	u 32bit	Active energy meter actual value Energy = value / 100 kWh 0… 4,294,967,295 Low word first
8308	8309	u 32bit	Reactive energy meter actual value Energy = value / 100 kVarh 0… 4,294,967,295 Low word first

Start	End	Type	Description
8354	8355	u 32bit	Event log: Last event timestamp 0… 4,294,967,295 seconds from 01.01.1970 00:00:00, POSIX format
8356	8356	u 16bit	Event memory: Last event error number
8357	8357	u 16bit	Event memory: Last event free value
8432	8432	u 16bit	Life time counter: Engine temperature too high Trip
8433	8433	u 16bit	Life time counter: motor temperature too high Trip, locked
8434	8434	u 16bit	Life time counter: motor sensor short circuit Trip
8435	8435	u 16bit	Life time counter: motor sensor open circuit Trip
8436	8436	u 16bit	Life time counter: Temperature sensor 1 limit exceeded trip
8437	8437	u 16bit	Life time counter: Temperature sensor 1 limit exceeded locked
8438	8438	u 16bit	Life time counter: Temperature sensor 1 short circuit trip
8439	8439	u 16bit	Life time counter: Temperature sensor 1 open circuit Trip
8440	8440	u 16bit	Life time counter: Temperature sensor 2 limit exceeded Trip
8441	8441	u 16bit	Life time counter: Temperature sensor 2 limit exceeded locked
8442	8442	u 16bit	Life time counter: Temperature sensor 2 short circuit trip
8443	8443	u 16bit	Life time counter: Temperature sensor 2 open circuit trip
8444	8444	u 16bit	Life time counter: Leakage monitoring 1 trip

Start	End	Type	Description
8445	8445	u 16bit	Life time counter: Leakage monitoring 1 locked
8448	8448	u 16bit	Total over lifetime: analog input cut-off value exceeded alarm
8449	8449	u 16bit	Total over lifetime: analog input cut-off value exceeded Locked
8450	8450	u 16bit	Total over lifetime: analog input sensor error alarm
8451	8451	u 16bit	Total over lifetime: analog input warning value exceeded warning
8452	8452	u 16bit	Life time counter: Current transformer input 1 limit exceeded Trip
8453	8453	u 16bit	Life time counter: Current transformer input 1 limit exceeded Locked
8454	8454	u 16bit	Life time counter: Current transformer input 1 sensor error Trip
8455	8455	u 16bit	Total over the lifetime: Current transformer input 1 Warnings
8456	8456	u 16bit	Total over lifetime: Cosϕ Alarm shutdown
8457	8457	u 16bit	Total over lifetime: Cosϕ Alarm Locked
8459	8459	u 16bit	Life time counter: phase sequence error Alarm, locked
8460	8460	u 16bit	Life time counter: phase loss Trip
8461	8461	u 16bit	Life time counter: phase loss Locked
8462	8462	u 16bit	Life time counter: Phase asymmetry detected Trip
8463	8463	u 16bit	Life time counter: Phase asymmetry detected Locked

Start	End	Type	Description
8464	8464	u 16bit	Total over lifetime: Phase monitoring undervoltage Trip
8465	8465	u 16bit	Total over lifetime: Phase monitoring undervoltage Locked
8466	8466	u 16bit	Live time couter: phase monitoring overvoltage Trip
8467	8467	u 16bit	Total over lifetime: Phase monitoring overvoltage Locked
8468	8468	u 16bit	Life time counter: Monitoring frequency converter Trip
8469	8469	u 16bit	Life time counter: Monitoring frequency converter Locked
8470	8470	u 16bit	Life time counter: switching frequency limit Trip
8471	8471	u 16bit	Life time counter: switching frequency limit Lockout
8472	8472	u 16bit	Life time counter: Device failure Trip
8474	8474	u 16bit	Total over lifetime: switching input Trip
8475	8475	u 16bit	Total over lifetime: switching input Locked
8514	8514	u 16bit	Total of warnings due to temperature 3
8515	8515	u 16bit	Life time counter: Leakage monitoring 1 warning
8516	8516	u 16bit	Life time counter: Temperature sensor 1 limit exceeded warning
8517	8517	u 16bit	Life time counter: Temperature sensor 2 warning
8518	8518	u 16bit	Life time counter: phase monitoring undervoltage warning

Start	End	Type	Description
8519	8519	u 16bit	Life time counter: phase monitoring overvoltage warning
8520	8520	u 16bit	Life time counter: Phase imbalance detected warning
8521	8521	u 16bit	Life time counter: Monitoring frequency converter Warning
8524	8524	u 16bit	Life time counter: Cosϕ warning
8526	8526	u 16bit	Life time counter: switching frequency limitation warning
8527	8527	u 16bit	Life time counter: Motor run detected even though the relay was switched off message
8554	8554	u 16bit	Life time counter: power reset Message
8555	8555	u 16bit	Life time counter: Real-time clock synchronization Message
8556	8556	u 16bit	Life time counter: Reset via Modbus Message
8557	8557	u 16bit	Total over lifetime: Reset via input / button Message
8558	8558	u 16bit	Life time counter: Successful parameter change via DP Message
8612	8612	u 16bit	Current operation time of the pump 0…65 535min
8614	8614	u 16bit	Number of running times <5 min Number to determine of quasi- percentage distribution
8615	8615	u 16bit	Number of running times 5-9 min Number to determine of quasi- percentage distribution
8616	8616	u 16bit	Number of running times 10-19 min Number to determine of quasi- percentage distribution
8617	8617	u 16bit	Number of running times 20-29 min Number to determine of quasi- percentage distribution
8620	8620	u 16bit	Number of operation times 120-300 min Number to determine of quasi- percentage distribution

Start	End	Type	Description
8621	8621	u 16bit	Number of operation times> 300 min Number determine of quasi- percentage distribution