



Automation Components

Worldwide

Made in Austria

Serving the world.

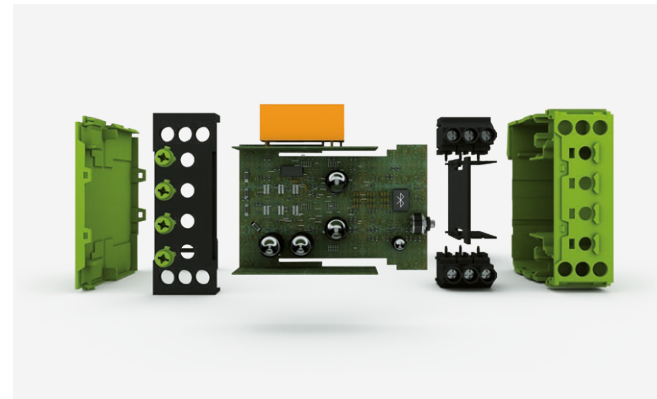


PAST TELE Haase Steuergeraete is an Austrian based, family owned technology company that is passionate about hiring the best in the business to develop control and monitoring solutions for both the energy and industrial sector.

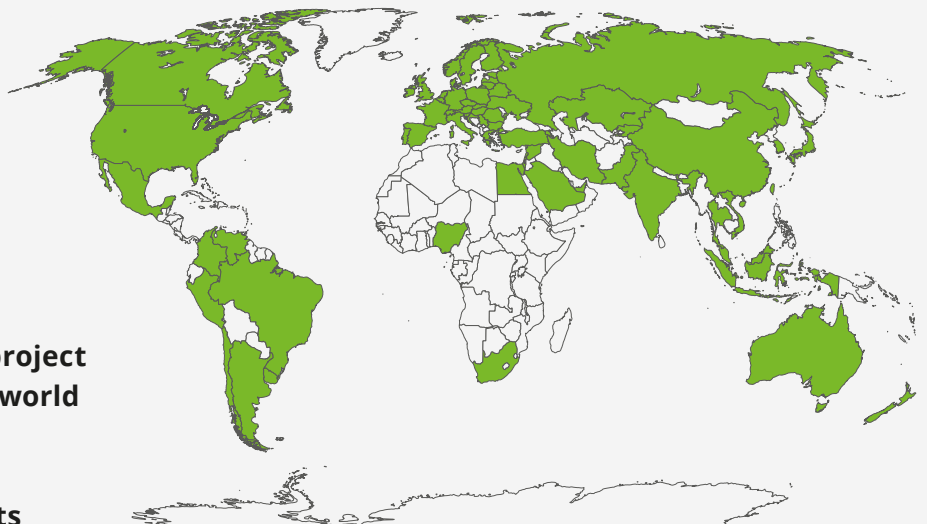
Found in 1963, TELE Haase has been a market leader for time and monitoring relays and has been developing customized solutions and components for the industrial and energy sectors for more than five decades.

PRESENT TELE products are being used the world over and are most often used in control cabinets, industrial plants and transformer stations, as well as being utilized in wind, water, and solar energy power plants.

FUTURE In the coming years, our technology is poised to integrate seamlessly into the industrial landscape by learning to communicate and deliver its data across different interfaces in the network to the people and places that the data is needed. This is going to pave the way for the factory of the future and, even better, will allow industries to be more efficient, green, and worker friendly.



- ✓ **Headquartered in Vienna, Austria**
- ✓ **Production facility in Austria since 1963**
- ✓ **Serving over 50 countries worldwide**
- ✓ **On-demand technical project support all around the world**
- ✓ **Reliable and green automation components**



Product Portfolio



Timers

- Single Function Timers
- ON and OFF delay
- Multi-Function Timers
- Timer Modules for Industrial Switching Relays
- Star-Delta Timers
- Digital Timers
- Staircase Timers
- Impulse Encoders
- Alternating Function Timers

Monitoring Relays

- Phase Failure
- Phase Sequence
- Asymmetry
- Voltage up to 900V AC
- Current up to 100A AC/DC direct or higher via external CTs
- Real Power up to 11kW/15hp direct or higher via external CTs
- Power Factor up to 11kW/15hp direct or higher via external CTs
- Effective Frequency from 40-70Hz
- Temperature via PTC, NTC or PT100
- Conductive Liquid Level

Transducers & Meters

- 1~ Power Meter up to 50A and 1000V with ModbusRTU Interface
- 1~ Power Meter up to 300A and 1000V with ModbusRTU Interface
- 3~ Power Meter up to 500V and universal CT Input with ModbusRTU Interface
- Universal Temperature, Current and Voltage Converter with Universal Sensor Inputs, Analog Output, ModbusRTU Interface and Digital Output



Switching Relays

- RM/RA, Miniature "Ice Cube" Relays
- RT, Industrial Relays
- RP, PCB Relays
- STKR, PLC Coupling Relays
- Sockets
- Modules

Power Supplies

- Industrial Power Supplies
- Power Supplies for Back-Up Systems
- Compact Power Supplies

Power Electronics

- Soft Starters
- Thyristor Stacks, 1- & 3-phase SCRs
- Braking Units
- Heating Units
- Semiconductor Fuses
- Fuse Holders

Hour Meters and Counters

- Digital Time Switches
- Digital Countdown Timers
- Analog Hour Meters
- Terminal Covers
- Sealings

Current Transformers (CTs)

- up to 1500A AC with 1 or 5A output
- up to 300A AC/DC with 4-20mA output, loop powered
- up to 300A AC/DC with Modbus RTU and 0-10V interface

Accessories

- TR Power Modules
- Mounting Plates
- Sealable Front Covers
- Conductive Probes
- Remote Potentiometers
- USB to RS485 Converters

Product Guide

Match your needs.



	ECO	COMPACT	ADVANCED
	ENYA	VEO	GAMMA
TECHNICAL SPECIFICATION			
Analog Output			■
Compact Installation Design	■		
Compact Industrial Design		■	
Heavy Duty Industrial Design			■
coolZoom Power Supply 12-240V AC/DC	■	■	
coolZoom Power Supply 24-240V AC/DC	■	■	■
TR2 and TR3 Power Modules 12V AC up to 500V AC			■
Low Energy Consumption, 0.8–1.5 W	■		■
Ultra Low Energy Consumption, 0.35–0.6 W		■	
Separate SPDs available		■	■
Screw Terminals	■	■	■
Push-In Terminals		■	
LED Indicators	■	■	■
LCD Display			■
APPLICATION FIELDS			
Building Automation	■		
Industrial Machinery	■	■	■
Pumps and Sewage		■	■
Renewable Energy			■
Heavy Duty Machinery			■
Mobility		■	■
Material Handling	■	■	■
Food and Beverage	■	■	■
Data Centers	■	■	■
Energy Distribution		■	■
Agricultural	■	■	■
Oil and Gas		■	■
PRODUCT FUNCTIONS			
Timer	■	■	■
Current Monitoring 1-Phase	■	■	■
Current Monitoring 3-Phase			■
Frequency Monitoring			■
Voltage Monitoring 1-Phase	■	■	■
Voltage Monitoring 3-Phase	■	■	■
Real Power Monitoring			■
Power Factor Monitoring, CosPhi			■
Liquid Level Monitoring	■	■	■
PTC, Temperature Monitoring	■	■	■
PT 100, Temperature Monitoring			■

Pipe and Sewage Protection



Product Category: Power Electronics
Product: Christian P-4.0/RL/OL

Series: Soft Starter
Art.No.: 490800

To prevent water hammering of pipes during start and stop of pumps, the super-slim motorstarter Christian P4.0 is the solution. The topic is essential for all pipe systems that include flexible tubes, which are connected to the main pipe via snap in fittings/couplings. This arrangement is typically used in temporary water supplies, green houses, dosing systems for pools, and agricultural applications.

Christian P-4.0 with soft start and soft stop functions increases the water pressure in the pipe in a controlled way. The pump does not expose the pipes to the water pressure immediately during the startup process. In the event of stopping the pump, check valves will not shut immediate due to the reverse pressure of the water and avoid a pressure peak. Soft stopping enables the check valve to shut moderately fast without any hammering effects to occur and also increases the life-span of the valves.

Vineyard Pest Control



Product Category: Timer
Product: V2ZM10 12-240V AC/DC

Series: VEO
Art.No.: 125100

For pest control, a mechanical switch activates the control contact of our V2ZM10 12-240V AC/DC multifunction Timer at each grapevine. The nozzle should then be activated for a certain time to spray the respective substance onto the grapevine. With the "single shot trailing edge with control contact" function, the time can be set in the relay depending on the quantity to be sprayed. This ensures that the quantity applied per grapevine can be adapted to the speed of the vehicle.

- Universal voltage (vehicle electrical system)
- Easy for the user to adjust
- Clear operating displays
- Available with Push-In terminals for vibration proof and mobile applications

Peak Load Detection



Product Category: Phase Monitoring Relay
Product: E1YM480Y/277VS10

Series: ENYA
Art.No.: 1340409

With the TELE universal voltage monitoring relay, dangerous electrical conditions like mains failure, phase sequence and phase imbalance can easily be sensed. Furthermore, critical voltage values caused by irregular startup of different loads (e.g. AC units or elevators), can easily be detected, preventing power outages to any electrical equipment that may be connected. If adjusted, a time delay for the integrated relay outputs can be set to give a delayed indication of the failure. The outputs can either send an alarm or command to a central control unit to turn on the backup power supply.

- 4 in 1 Super compact device
- High flexibility with user-adjustable time delays
- User-friendly set up, NO software skills required
- Detects direction of rotation of the mains

Contactless Power Metering of Electric Motors



Product Category: Energy Meter
Product: S9XM300A1000VM

Series: SENSact
Art.No.: 2800220

The power analyzer and transducer S6XM300A1000VM measures and monitors all essential parameters of an electric drive completely contactless. Important values as such as Power Factor ($\cos\phi$), Frequency, V_{peak} , I_{peak} , THD (Total Harmonics Distortion), Real-, Reactive-, and Active-Power can be sent to any kinds of controllers or PLC via the integrated ModBusRTU / RS485 interface. The transducer can be used with brushless DC motors as well.

Receiving all of the parameters mentioned above can easily give an overview of the characteristics of drives for pumps, shredders, agitators or screening machines. Critical conditions like cavitation, running dry, over load or a broken v-belt can be detected to prevent damage to equipment.

Seal Leakage Monitoring



Product Category: Liquid Level Controller
Product: V4LM4S30 24–240V AC/DC

Series: VEO
Art.No.: 2104500

Two wires from the relay are connected to a resistance-sensing probe in the pump seal cavity and the grounded motor housing to monitor for seal leakage, applying an ultra-low voltage signal.

If the seal starts to leak, contaminating fluid enters the seal cavity. This lowers the resistance between the internal probe and the common ground. When the resistance drops below the user-adjusted sensitivity set-point of the relay, the output relay energizes, visualizing the current condition of the seal with an indication LED on the front of the device. The relay output can be used to give an alarm indication of a leaking seal. The universal 10in1 level controller V4LM4S30 comes with three relay outputs and allows connecting up to four probes at a time.

Load Monitoring of a Screw Feeder



Product Category: Power Monitoring
Product: G4BM480V12ADTL20 24–240V AC/DC

Series: GAMMA
Art.No.: 2394706

The screw conveyor in a waste recycling plant has to be monitored for critical overload conditions. In case the screw element of the feeder is blocked by bulky or heavy parts in the system, the physical real power value increases, which can cause serious damage to the motor, bearings and mechanical structure of the installation. By sensing this certain value with the real power monitor, a safe and smooth operation of the screw unit is guaranteed. In addition, switching off the conveyor drive and sending an alarm with the integrated relay outputs, the plant manager can respond accordingly.

- No expensive sensors necessary
- No software needed for setup
- Digital display showing real time values
- Connects directly to motors up to 10kW/13.60hp @480V AC

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