Protos 3400 (X)

ChangeLog
Firmware History

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Content

1 FRONT Version A.2

PROFIBUS Menu Items

Some menu items have been renamed to make them easier to understand.
- "Bus Connection" -> "Operation Lock"
- "Release by DCS [On Off]"-> "Operation Lock [On Off]"
- new: "Locks Operation on Device. Unlocking via Bus Only!"

UNICAL/UNICLEAN New Menu Item: "Sensor Immersion Guard"

The menu item "Sensor Immersion Guard On/Off" was added to allow the guard to be switched off if required.

UNICAL/UNICLEAN Change to Processing Sequence

Following the system forecast, commissioning is now the final step.

UNICAL/UNICLEAN System Forecast Improvements

- If "Auto" is selected as the active reference profile, a reference profile (at least 20 valid movements) is recorded in the background. Prior to this, the old profile is deleted (with confirmation prompt).

- If "User" is selected as the active reference profile, six movements are immediately triggered and a profile is created. The menu item "Manually Edit Reference Profile" is only available if "User" is selected.

- Within message monitoring, individual messages can now be deactivated or configured as maintenance or failure messages.

Behavior with Memosens pH/ORP Sensors

If a pH/ORP Memosens combo sensor is removed, error message 101, "Communication Interrupted," is displayed and the "Manual Temperature" icon is no longer displayed. The "Statistics" menu is no longer available for this sensor type.

Behavior with Memosens CONDI Sensors

After Airset calibration, only the new, adjusted zero point is shown.

1.1 COMPA 3400(X)-081 Version 2.4	
PROFIBUS PA Communication Module	
SW Version 2.4	
Changes from previous version	Update for SIMATIC PDM ≥ 8.0: New parameter in the AI function blocks, allowing calibration records to be retrieved in 100-byte sections.
SW Version 2.3	
Changes from previous version	1. Life measured values (AIs) can now be transmitted during Hold (esp. in Unical service position) 2. New cyclic data from Protos included: partial pressure [mmHg], days [d], Stern-Volmer constant, phase [degrees], installation factor 3. New units of measurement included: degrees (1005), mmHg (1157)

1.2   FIU 3400(X)-140 / FIU 3400-141 Version 3.5

FIU Module

SW Version 3.5

Changes from previous version	Improvements in sensor communication with Memosens sensors (response in event of transmission errors and MS security code)
	Temperature offset factor updated for Memosens
	Reference temperature for Memosens oxygen sensors changed from 20 °C to 25 °C
	U_{IS} is now calculated with the value stored in the sensor.
	Extension of interface commands for managing the Unical system forecast, the check counter, and the maintenance counter

1.3   MS 3400(X)-160 Version 2.2

Measuring Module for Memosens Sensors

SW Version 2.2

Changes from previous version	Sensor communication with Memosens sensors updated to accommodate new MS security code

1.4   PHU 3400(X)-110 Version 3.1

Uniclean Module

SW Version 3.1

Changes from previous version	Extension of interface commands for managing the Unical system forecast, the check counter, and the maintenance counter.

1.5   UNICAL 9000(X) Version 4.3

SW Version 4.3

Changes from previous version	- Extension of interface commands for managing the Unical system forecast, the check counter, and the maintenance counter. - Manual control now also interrupts the probe movement in the event of an error

1.6 UNICLEAN 900(X) Version 2.1	
SW Version 2.1	
Changes from previous version	- Support for system forecast >> reference profiles

2   FRONT Version A.3

Special version: Custom modification, not included in version A.4.

2   FRONT Version A.3

Special version: Custom modification, not included in version A.4.

3   FRONT Version A.4

Bugfix: Incorrect attribution of messages

If the FIU3400-141-2, FIU3400X-140-2 modules are operated together with MS3400(X)-160 or LDO3400-170 in a Protos 3400(X), some error messages from the sensor at the Memosens I slot on the FIU module are incorrectly attributed to the sensor at the MS3400(X)-160 or LDO3400-170 module. The error messages "Communication Interrupted" and "No Sensor" are output.

Bugfix: Unical calibration aborted

If Unical 9000(X) starts the "Calibrate" program step while a menu is open on the Protos 3400(X), the calibration procedure may in rare cases be aborted.