

Lifetime, Preventative, and Predictive Maintenance - At Your Fingertips



PRO COM DISPLAY 7S
2468960000

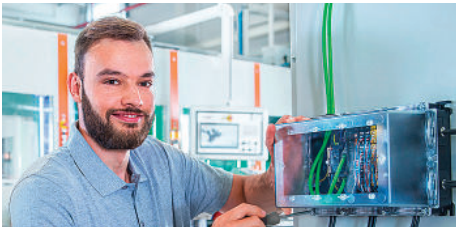
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Navigation & Selection Buttons

Three Different Applications. Three Operating Modes.

Application: Troubleshooting – Multimeter Mode



PRO COM DISPLAY 7S acts as a Multimeter:

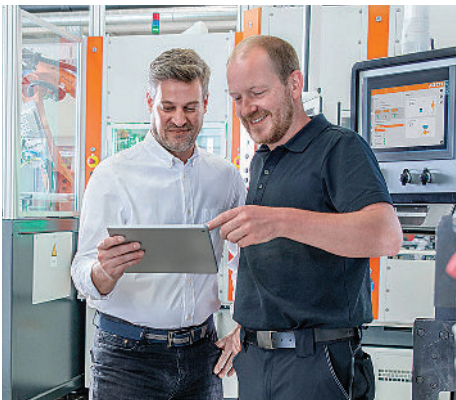
It reads:

- Output voltage of power supply
- Instantaneous output current
- Peaks of output current

This mode does not allow any change in output or other parameters of the power supply.

After finishing the troubleshooting, you can unplug the PRO COM DISPLAY 7S and work in another PROtop power supply.

Application: Start-up – Settings Mode



PRO COM DISPLAY 7S reads / writes data from / to the Power Supply and sets new parameters.

It reads:

- Output voltage of power supply
- Instantaneous output current
- Peaks of output current
- Hardware and firmware version
- Alarms stored in the power supply

It writes:

- Voltage output of power supply (Force output values).

It sets parameters of the power supply which are used in Monitoring Mode:

- Set **Runtime Alarm Time** = maximum time of operation (in kilo hours). Minimum = 0.5khours.
- Set **Maintenance Forecast Alarm Time** = minimum acceptable lifetime of Electrolytic Capacitors of Power supply (in years). Minimum=0.5 year

Both parameters will be, respectively, used in “**Remaining Runtime**” and “**Maintenance Forecast**” of Monitoring Mode (see Monitoring Mode, below).

Application: Predictive Maintenance – Monitoring Mode



PRO COM DISPLAY 7S Features*

(*When snapped onto the PROtop Power Supply to measure lifetime use.)

- Read output voltage
- Read instantaneous current
- Read peaks of output current
- Read **Remaining Runtime** = time to reach maximum time of operation (**Runtime Alarm Time**) defined in Settings Mode (kilo hours).

Remaining Runtime is used whether the maintenance procedure of the customer defines a **maximum time to operate** a power supply. After reaching this time, the power supply will be exchanged **preventively** as precaution.

- Typical Industry: Nuclear Plants

- Read **Maintenance Forecast** = value until the PROtop reaches minimum acceptable lifetime of Electrolytic Capacitors (**Maintenance Forecast Alarm Time**), defined in Settings Mode (in years). ♦

Maintenance Forecast is based on an algorithm of PRO COM DISPLAY 7S which monitors the environmental conditions of PROtop and calculates the remaining lifetime of their Electrolytic Capacitors. The time to alarm will decrease (faster or slower) depending on this **predictive calculation**.

Maintenance Forecast is used whether the maintenance procedure of the customer defines a **minimum acceptable lifetime** to keep a power supply in operation. When the algorithm **predicts** that this time is reached, the power supply is exchanged.

- Typical Industry: Automotive Plants

♦ The value read in the **Maintenance Forecast** is only valid if the PRO COM DISPLAY 7S is snapped onto the PROtop during the whole lifetime of the power supply.

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