

# Pump controllers

The easy way



**DRIP DROP** 

## PC-2000-W



### Technical data

|                            |                                 |
|----------------------------|---------------------------------|
| Power supply               | 24 VDC ( 19,2 -30 VDC)          |
| Power consumption          | PC-2000=150mA, ADA-2000=150mA   |
| Mounting cut out (PC-2000) | 203.5 x 115.5 (W x H) mm        |
| Dimension (PC-2000)        | 213 x 125 x 54 (W x H x D) mm   |
| Mounting (ADA-2000)        | DIN-rail 35mm                   |
| Dimensions (ADA-2000)      | 160 x 83 x 51 (B x H x D) mm    |
| Temperature                | -5 to +55 °C                    |
| Housing (PC-2000)          | IP 54 (IP65 from front side)    |
| Housing (ADA-2000)         | IP30                            |
| Weight                     | 0.6 kg                          |
| Processor                  | ATMEL ATMEGA 128                |
| Memory                     | SRAM, E2PROM, FEPRM             |
| Graphical display          | 128x 64 dots                    |
| Operators keys             | 12 pcs                          |
| LED's                      | 1 green , 1 yellow, 2 red       |
| Internal battery (Lithium) | CdLi                            |
| I/O-signals (PC-2000)      | Band cable 1x 26, 1x20 and 1x14 |
| I/O-signals (ADA-2000)     | Screw terminal directly on unit |
| Analogue inputs (AI)       | 7 0/4-20mA (24VDC)              |
| Analogue outputs (AO)      | 2 4-20mA (24VDC) and 0-10V      |
| Digital inputs (DI)        | 20 opto isolated (max.500V)     |
| Counter inputs (CI)        | 2 Pulse frequency (max.500Hz)   |
| Digital outputs (DO)       | 16 Relays (24VDC, 250VAC/6A)    |
| RS-232                     | 1 115200 Baud                   |
| RS-485                     | 1 115200 Baud                   |
| Protocol                   | COMLI / MODBUS                  |

**PC-2000-W** is a powerful pump controller developed for water and waste water applications and incorporates all necessary functions.

The pump controller is a good alternative to a PLC, because it has a lot of preconfigured functions which makes the unit very easy to configure and to start up when a pumping station has many parameters to be set.

PC-2000-W should be used for water and waste water pumping stations where high demands are needed for the supervision and control of the pumps. All information is available on a graphical display with good visibility both indoors and outdoors.

### Functions

- Supervision, control and data logging for up to 4 pumps.
- Pumps controlled via analogue sensor and / or level float.
- Alternating function for all pumps.
- Start- and running time counters for the pumps etc.
- Built in function for flushing and agitation.
- Function for attendance check or burglary alarm.
- Alarm for over flow, motor protection, high level float etc.
- Alarm sending via SMS-text and SMS-confirmation.
- Impulse counters for power, flow and rain.
- Logging function with 7 days values directly available in display.
- Calculation of inflow, outflow, overflow and pump capacity.
- Function for trend/historical curves in graphic display.
- Quick keys for easy overview.
- SCADA-support for logging buffers.
- Cross reference table for easy communication with the most common SCADA-systems for water applications.
- GSM/SMS-function for external modems.

## PC-200



### Technical data

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Power supply                      | 24 VDC (20,4 -28,8 VDC)             |
| Power consumption                 | 3W                                  |
| Mounting cut out                  | 158.5 x 98.5 (W x H) mm             |
| Dimensions                        | 166 x 106 x 60 (W x H x D) mm       |
| Temperature                       | -5 to +55 °C                        |
| Housing                           | IP 54 (IP65 from front side)        |
| Weight                            | 0.25 kg                             |
| Processor                         | ATMEL ATMEGA 128                    |
| Memory                            | SRAM, E2PROM, FEPRM                 |
| Display                           | 2 x16 signs alphanumeric            |
| Operator keys                     | 4                                   |
| LED's                             | 4 multi colour (green, red, orange) |
| Internal battery (Lithium)        | CdLi                                |
| I/O signal inputs                 | Direct on screw terminals           |
| Analogue inputs (AI)              | 2 0/4-20mA (24VDC)                  |
| Current inputs (I)                | 3 0-5A                              |
| Phase voltage inputs (L)          | 3 240 VAC                           |
| Digital inputs (DI)               | 10 Opto isolated (max.500V)         |
| Termo inputs (T)                  | 3 PT100                             |
| Pulse inputs (CI)                 | 1 Pulse frequency (max.500Hz)       |
| Digital relay outputs (DO)        | 5 Relays (24VDC, 250VAC/6A)         |
| Didigital transistor outputs (DO) | 2 50mA, 24VDC (max 360mA)           |
| RS-232 or RS-485                  | 1 115200 Baud                       |
| Protocol                          | COMLI / MODBUS                      |

**PC-200** is a simple user friendly pump controller with many functions needed in small and middle size pumping stations.

It is easy to install and start-up, but can also be used as a smaller supervision controller were alarms can be sent to GSM-phones.

PC-200 is developed for control and alarm handling in water and waste water pumping stations. The information is presented in a two row display with large characters.

### Functions

- Controls and supervises up to 3 pumps.
- Pumps controlled via analogue level sensor and or level float.
- Alternating function for all pumps.
- Start- and running time counters for the pumps.
- Built- in function for agitation.
- Function for attendance check.
- Alarm for over flow, motor protector, high level float etc.
- Alarm sending via SMS-text and SMS-confirmation.
- Impulse counters for power, flow and rain.
- Pump alarm inputs for temperature, moisture etc.
- Phase voltage supervision with alarm.
- GSM/SMS-function for external or internal modem.
- Built-in GSM-modem (Option).