



TALGIL
Computing & Control Ltd.



AGROTAL

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Innovation - the first fully equipped agricultural timer

The first in the market, time based controller that offers full range of features required for professional agricultural applications including control of up to 3 fertilizer injectors and automatic filters backflushing, with the most user friendly MMI. The unit is expandable up to 36 stations.

General Features

- Modular structure – expandable in step of 6, up to 36 outputs.
- All available outputs can be utilized with no need to leave out any unused ones. The outputs allocation may contain:
 - 0 or 1 main valve/ pump control.
 - Up to 3 fertilizer injectors.
 - Any number of irrigation valves.
 - Any number of filter station.
 - 0 or 1 pressure sustain valve.
- Inputs can be allocated for:
 - 1 water meter.
 - 1 pressure sensor.
 - 1 differential pressure sensor.
 - 1 sensor for activating program No. 4.
- User friendly MMI including Graphic display, rotary selector, function keys and led indicators.
- Adjustable valve testing run time.

Irrigation features

- Four independent irrigation programs with up to six start times per program.
- Each program can be assigned any number of valves or groups of valves.
- Each program handles both the irrigation and the fertilization with independent water run time and fertilizers run time per each program member.
- Any program may be pulse irrigated with unlimited number of cycles within the permitted time zone.
- Program No. 4 may function as a regular program or as an emergency program started by a specially allocated sensor, most suitable for handling frost protection and cooling procedures.
- Run time units of hours/minutes or minutes/seconds selectable per program.
- All water run times can be adjusted in % between 0- 250 %.
- Adjustable rain off delay with unlimited length.
- Irrigation days calendar length adjustable up to 31 days.
- Various modes of program start include automatic, manual, full program, partial program and single valve start.
- Manual program pause with adjustable length.
- Including program statuses review screens.

Fertigation

- Handling up to 3 independent fertilizer injectors.
- Fertilizing in three stages : pre-watering, injection and post-watering.
- Applying fertilizers continuously or proportionally.
- Selectable parallel or sequential order of injection .

Filtration

- Automatic filters backflush program activated by pressure differential sensor and/or by elapsed time.
- Optionally handling pressure sustain valve.

Special features

- Overlapping or delayed switching of valves protects the hydraulic system from extreme pressure and flow changes.
- High pressure Alert.
- Delayed or advanced opening / closing of Main Valve.
- Adjustable delay of powering up after power outage, protects the pump from being damaged.

Informative review screens

- Reporting programs statuses.
- Indicating existing problems.
- Displaying the current water flow.
- Showing the statuses of outputs and inputs.

Technical specifications

- Relay operated outputs.
- Dry contact inputs.
- 9V alkaline backup battery.
- Optional lightning and surge protection.
- Detecting and eliminating short circuited outputs.

Electrical information

- Power source of 220v or 110v AC 50 or 60Hz.
- Built-in transformer of 75 VA.
- Outputs of 24v AC max 10 watt per output.
- Up to 11 solenoids of 4 watts may operate simultaneously.