

# NETAFIM LANDSCAPE CONTROLLER

Stand Alone Controller Includes Hybrid Technology with Master Valve and Sensor Inputs

## NLC-100S HYBRID

### APPLICATIONS

- Commercial and HOA applications with battery operated controllers
- Retrofit applications requiring flow sensors
- Applications that require the rezoning or expansion of existing systems

### SPECIFICATIONS

#### CONTROLLER

- Stations (valves): 12 - 100
- Electrical input: 115VAC, 50VA  
Electrical output: 24VAC
- Maximum simultaneous active valves: 6
- Master valves: 1, 10 sec. stop delay
- Booster pumps: 2, 10 sec. stop delay
- Built-in lightning protection
- Valve output: 24VAC, 1.0 A per station maximum, 1.5 A total maximum
- Cabinet: wall mounted NEMA 3 rated locking metal cabinet with internal class 2 transformer

### SPECIFICATIONS

#### HYBRID MODULE

- Stations (valves): 6 or 24  
Up to 48 with additional hybrid board
- Electrical input: 24VAC sourced from current controller
- Includes (1) master valve and (1) flow sensor input
- Up to 3 stations simultaneously
- 2-Wire distances up to 8,000'
- Program decoders at hybrid controller or with the optional programmer
- Requirements:
  - Decoder for converted stations and master valve
  - Sensor decoder for flow sensor

### FEATURES & BENEFITS

#### MASTER VALVE AND FLOW METER INPUTS

Add a master valve and flow meter to the system utilizing the existing valve's common and control wires.

#### ADD MULTIPLE VALVES

Ability to add multiple valves to an existing system from any existing valve location.

#### CONVERT TO A 2-WIRE SYSTEM

Enjoy all the advantages of a 2-Wire decoder system utilizing the existing control wires.

#### MANAGE REMOTELY

Control irrigation programs and review daily logs and schedules for multiple sites from any web-based computer (service contract required).

#### COMBINE MULTIPLE CONTROLLERS

Combining multiple controllers into one minimizes power drops and recurring server fees.



#### HYDROMETER FLOW SENSOR

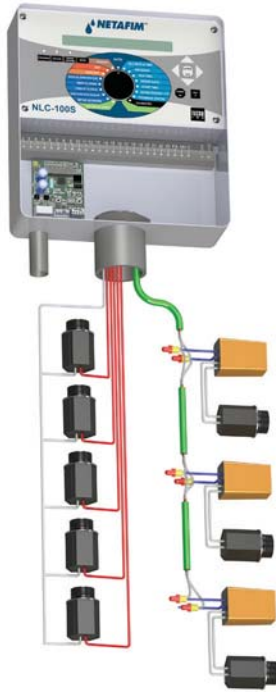
The perfect solution for retrofitting - contains both a master valve and flow sensor in one sturdy package.

- No straight pipe requirements upstream or downstream for installation in tight places.
- Real-time flow display based on pulses per gallon.
- Photo diode option for high frequency output, even at low flows. Powered by the controller or by a sensor decoder.
- Provides +/- 2% accuracy across a wide range of flows.
- Also used with NLC-100S, NLC-100D and NLC-3D systems.

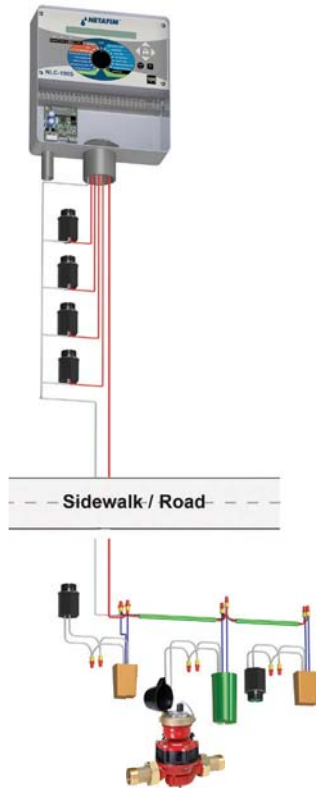
## NLC-100S HYBRID CONTROLLER CONFIGURATIONS

The following illustrations show NLC-100S Hybrid controller configurations with the addition of a Master Valve and Flow Sensor, valves, and simple 2-Wire conversion.

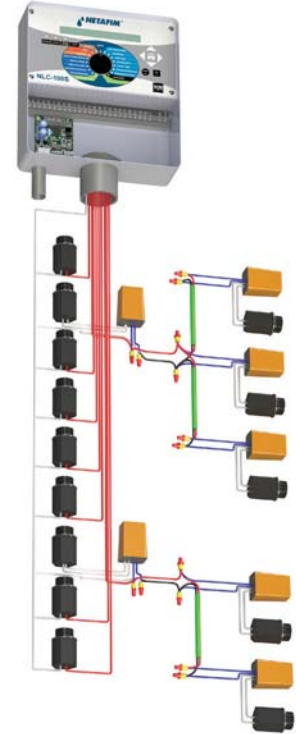
Simple conversion to a 2-Wire system



Adding 2-Wire, master valve and flow sensor using existing conventional wires



Conventional outputs with addition of valves by converting to a 2-Wire system



### 2-WIRE DISTANCES

SIMULTANEOUS OPERATIONS	TW18/ 2AWG	TW16/ 2AWG	TW14/ 2AWG
1 VALVE	3,000	6,000	8,000
2 VALVES OR 1 VALVE + MASTER VALVE	2,300	4,600	6,000
3 VALVES OR 2 VALVES + MASTER VALVE	1,500	3,000	4,000

### DIMENSIONS & WEIGHT

LENGTH	12"
DEPTH	6"
HEIGHT	12"
WEIGHT (LBS.)	15

### ORDERING MATRIX

### OPTIONS

**NLCSH** - STATION COUNT - CABINET/PEDESTAL - COMMUNICATION - HYBRID OPTION - OUTPUT

#### CONVENTIONAL HYBRID PANEL

STATION COUNT *
012 = 12 Stations
018 = 18 Stations
025 = 25 Stations
037 = 37 Stations
050 = 50 Stations
075 = 75 Stations
100 = 100 Stations

\* Order appropriate Cabinet size (C12 or C20) for Station Count

CABINET/PEDESTAL
C12 = 12" x 12" x 6" Cabinet (Up to 25 stations)
C20 = 12" x 20" x 6" Cabinet (Over 25 stations)
PE1 = 2 Piece Top Entry SS Lite Pedestal (1-100 stations)
PE3 = 1 Piece Top Entry SS HD Pedestal (1-100 stations)
NON = No Cabinet or Pedestal

COMMUNICATION
W = Cellular
L = LAN
N = None

HYBRID OPTIONS
06 = Up to 6 Valves, MV, Flow Sensor
24 = Up to 24 Valves, MV, Flow Sensor

OUTPUT TERMINAL
Y = Heavy Duty Output Lightning Strip
N = No Output

#### ORDERING EXAMPLE:

**NLCSH-012-C12-W-06-N** = Model Number **NLCSH012-C12W06N**  
Netafim Landscape Controller NLC-100S, Conventional with Hybrid Technology, 12 Stations, 12" x 12" x 6" Cabinet, Cellular, 6 Stations, No Output Terminal



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