

# Dukane Patented MPC Multi - Point Control

The MPC unit is designed for assembly systems where one ultrasonic power supply is sequenced to several ultrasonic probes. Our unique Control and Process Monitoring Profile is available for each individual probe when coupled with a Dukane DPC II *Plus* or any of the *iQ* Series ultrasonic generator.



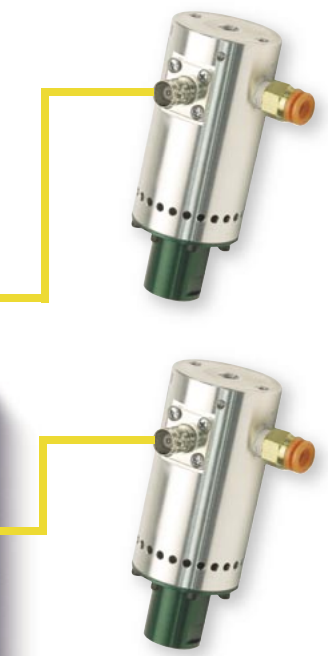
MPC 8 Probe Panel Mount

## Control Features

- ▶ Weld by Time
- ▶ Weld by Energy
- ▶ Weld by Peak power
- ▶ Amplitude Selection  
1% Increments

## Process Monitoring

- ▶ Suspect or Bad Part Limits
- ▶ Min - Max Weld Time
- ▶ Min - Max Weld Energy
- ▶ Min - Max Weld Peak Power
- ▶ Fault Status



MPC stand-alone module can be mounted in a through panel configuration as pictured here or as an internal card for DPC series power supplies.

MPC has the ability to sequence up to 16 probes or converters and can be purchased from 2 to 16 point control. Color-coded status LED's insure ease of system operation and field troubleshooting. The MPC module can be used with all frequency and power levels of ultrasonic systems.

**System Status Indicator  
Displays System Active and Faults**

- Green indicates system OK
- Orange indicates non critical fault
- Red Indicates critical fault

**Probe Selection Indicator**

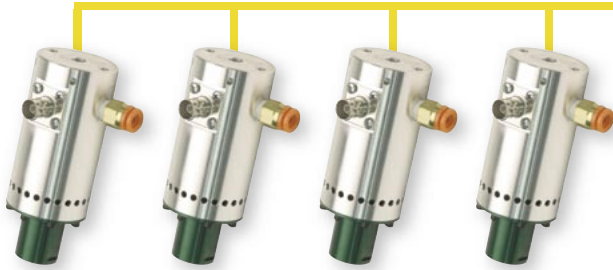
- Green indicates probe channel selected
- Red indicates ultrasonics active

**DUKANE**

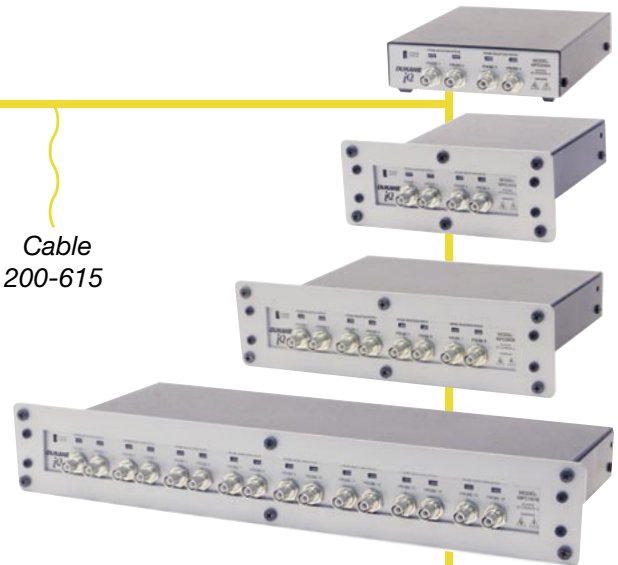
Intelligent Assembly Solutions

# MPC Configurations

Connect up to 16 Probes



Cable  
200-615



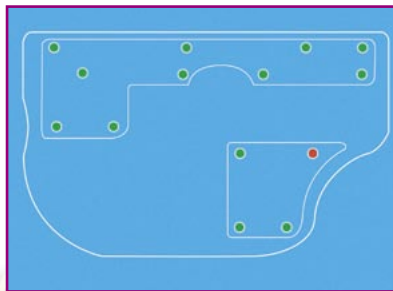
MPC Controllers

**Some of the patented features include:**

- Fully protected from improper programming and power line irregularities.
- Binary coded selection inputs prevents selection of 2 probe relays.
- Logic interlocks prevent selection changes when ultrasound is on.
- Ring-down monitor allows relay switching only when voltage is off.
- Fault monitor detects a shorted relay coil driver and halts operation.
- Hold-up time of internal supplies - designed to ride-out any line problem.

**Eliminate equipment failures due to improper machine programming.**

Dukane's Multi-point control coupled with either a DPCII *Plus* or *iQ* series power supply offers independent control and process monitoring of weld time, weld energy, and amplitude. This allows for suspect or bad part alarms independent for each weld point. Typical automated machines using Dukane's MPC can have an illuminated part map that would immediately indicate to the operator potential weld defects. No other system offers this level of control.



Green – Good Weld  
Red – Bad Weld



200-1408

200-479

User Supplied  
Cable

*iQ* Auto



*iQ* Series



Cables  
200-1380  
&  
200-1381

DPC II



Cables  
200-1202  
&  
200-1203

DPC II *Plus*



Cables  
200-1202  
&  
200-1203

DPC  
with MPC  
Modules

