

**Ohio DOT, Office of Roadway Engineering
Portable Changeable Message Signs (PCMS)
Supplement 1061 - NTPEP-Based Approved List**

Last Updated: January 21, 2022

Class A shall be used on roadways where the speed limit is 45 mph or greater (which requires greater legibility distances), but may also be used on other roadways.

Class B shall only be permitted on roadways where the speed limit is 40 mph or less.

MASH-16

MASH-16 Compliant PCMS:

Manufacturer	Model Number	Model Description	NTPEP Date / Test Number
--------------	--------------	-------------------	--------------------------

~~~No MASH-16 compliant PCMS are currently approved.~~~

**NCHRP 350**

**NCHRP 350 Compliant PCMS:**

| Manufacturer                                                                                                                                  | Model Number                                                                                 | Model Description                                                                                                              | NTPEP Date / Test Number  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| ADDSCO LLC<br>955 Wells St.<br>St. Paul, MN 55106<br>(651) 488-8600<br>Fax: (651)558-3600<br><a href="http://www.addco.com">www.addco.com</a> | DH1000-ALS*<br><br>(As of 2017, this version of the device is no longer being manufactured.) | Class A, Line Matrix<br>Cell Modem Option<br>No-Charge Battery Duration ≥30 Days<br>Solar Panel Tilt and/or Rotate             | 8/1/2004<br>PCMS(2004)-13 |
| American Signal Company<br>2755 Bankers Industrial Drive<br>Atlanta, GA 30360<br>(770) 448-6650<br>Fax: (770) 448-8970                        | CMS-T331                                                                                     | Class A, Character Matrix<br>Cell Modem Option<br>No-Charge Battery Duration ≥30 Days<br>Solar Panel Tilt and/or Rotate Option | 10/1/2010<br>PCMS(2010)-5 |
|                                                                                                                                               | CMS-T332                                                                                     | Class A, Line Matrix<br>Cell Modem Option<br>No-Charge Battery Duration ≥30 Days<br>Solar Panel Tilt and/or Rotate Option      | 8/1/2004<br>PCMS(2004)-5  |
|                                                                                                                                               | CMS-T333                                                                                     | Class A, Full Matrix<br>Cell Modem Option<br>No-Charge Battery Duration ≥30 Days<br>Solar Panel Tilt and/or Rotate Option      | 10/1/2009<br>PCMS(2009)-2 |

(Ohio DOT NCHRP 350 Compliant PCMS Approved List, Continued from Page 1)

| Manufacturer                                                                                                                                                                                                                                       | Model Number                                                                                                                           | Model Description                                                                                                                                                                                                                                  | NTPEP Date / Test Number   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Hill & Smith Inc.<br>987 Buckeye Park Rd.<br>Columbus, OH 43207<br>Phone: (614) 340-6294<br>Fax: (614) 340-6296<br><a href="http://www.hillandsmith.com">www.hillandsmith.com</a>                                                                  | SMC 1000 HE ST*<br><br>(No longer being manufactured.)<br><br>(Formerly manufactured by Work Area Protection Corporation.)             | Class A, Character Matrix<br>Cell Modem Option<br>No-Charge Battery Duration <30 Days<br>Solar Panel Tilt and/or Rotate Option                                                                                                                     | PCMS(2011)-01-004          |
|                                                                                                                                                                                                                                                    | SMC 1000 HE*<br><br>(As of Feb 2017 no longer being manufactured.)<br><br>(Formerly manufactured by Work Area Protection Corporation.) | Class A, Character Matrix<br>No-Charge Battery Duration ≥30 Days                                                                                                                                                                                   | 10/1/2007<br>PCMS(2007)-3  |
|                                                                                                                                                                                                                                                    | SMC 2000 FM*<br><br>(As of Feb 2017 no longer being manufactured.)<br><br>(Formerly manufactured by Work Area Protection Corporation.) | Class B, Full Matrix<br>Cell Modem Option<br>No-Charge Battery Duration ≥30 Days                                                                                                                                                                   | 10/1/2007<br>PCMS(2007)-4  |
| K&K Systems, Inc.<br>687 Palmetto Road<br>Tupelo, MS 38801<br>Phone: (662)566-2025<br>Toll Free: (888)414-3003<br><a href="http://www.k-sysystems.com">www.k-sysystems.com</a><br><a href="mailto:sales@k-sysystems.com">sales@k-sysystems.com</a> | MB3L                                                                                                                                   | Class A, Character Matrix<br>No-Charge Battery Duration ≥30 Days<br>Cell Modem Option<br>Solar Panel Tilt and/or Rotate Option<br><br>NOTE: In order to achieve No-Charge Battery Duration ≥30 Days, device shall be used with (10) 12V batteries. | PCMS-2018-01-002           |
|                                                                                                                                                                                                                                                    | MB14281                                                                                                                                | Class A, Full Matrix<br>No-Charge Battery Duration ≥30 Days<br>Cell Modem Option<br>Solar Panel Tilt and/or Rotate Option                                                                                                                          | PCMS-2020-01-001           |
| National Signal, Inc.<br>2440 Artesia Ave.<br>Fullerton, CA 92833<br>(888) 994-0300<br>Fax: (714) 441-7714                                                                                                                                         | SunRay SR-380                                                                                                                          | Class A, Character Matrix<br>Cell Modem Option<br>No-Charge Battery Duration ≥30 Days                                                                                                                                                              | 8/1/2004<br>PCMS(2004)-18  |
|                                                                                                                                                                                                                                                    | SunRay SR-490                                                                                                                          | Class A, Full Matrix<br>Cell Modem Option<br>No-Charge Battery Duration <30 Days<br>Solar Panel Tilt and/or Rotate Option                                                                                                                          | 10/1/2008<br>PCMS(2008)-10 |
| Solar Technology<br>7620 Centronia Rd.<br>Allentown, PA 18106<br>(610) 391-8600<br>Fax: (610) 391-8601                                                                                                                                             | Silent Messenger<br>MB-4048                                                                                                            | Class A, Full Matrix<br>Cell Modem Option<br>No-Charge Battery Duration <30 Days                                                                                                                                                                   | 10/1/2008<br>PCMS(2008)-7  |
|                                                                                                                                                                                                                                                    | Silent Messenger<br>MB-1548                                                                                                            | Class A, Full Matrix<br>Cell Modem Option<br>No-Charge Battery Duration <30 Days                                                                                                                                                                   | 9/1/2006<br>PCMS(2006)-1   |
|                                                                                                                                                                                                                                                    | Silent Messenger II<br>MB2-LR-3048                                                                                                     | Class B, Full Matrix<br>Cell Modem Option<br>No-Charge Battery Duration <30 Days                                                                                                                                                                   | 10/1/2008<br>PCMS(2008)-8  |
|                                                                                                                                                                                                                                                    | Silent Messenger II<br>MB2-3048                                                                                                        | Class B, Full Matrix<br>Cell Modem Option<br>No-Charge Battery Duration <30 Days                                                                                                                                                                   | 10/1/2007<br>PCMS(2007)-6  |

(Ohio DOT NCHRP 350 Compliant PCMS Approved List, Continued from Page 2)

| Manufacturer                                                                                                        | Model Number                                 | Model Description                                                                                                             | NTPEP Date / Test Number                                      |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Ver-Mac, Inc.<br>2650 Minnehaha Ave., Ste.<br>500<br>Minneapolis, MN 55406<br>(612) 521-2122<br>Fax: (612) 521-1022 | PCMS 1500<br>(excluding PRO<br>SERIES model) | Class A, Full Matrix<br>Cell Modem Option<br>No-Charge Battery Duration $\geq$ 30 Days<br>Solar Panel Tilt and/or Rotate      | 10/1/2009<br>PCMS(2009)-5                                     |
|                                                                                                                     | PCMS 1210<br>(excluding PRO<br>SERIES model) | Class A, Character Matrix<br>Cell Modem Option<br>No-Charge Battery Duration $\geq$ 30 Days<br>Solar Panel Tilt and/or Rotate | 10/1/2009<br>PCMS(2009)-3<br>PCMS(2009)-4                     |
| Wanco, Inc.<br>5870 Tennyson Street<br>Arvada, CO 80003<br>(303) 427-5700<br>Fax: (303) 427-5725                    | WTMMB-S-LL(A)                                | Class A, Full Matrix<br>Cell Modem Option<br>No-Charge Battery Duration < 30 Days<br>Solar Panel Tilt and/or Rotate Option    | 10/1/2008<br>PCMS(2008)-3<br>Updated:<br>PCMS-2017-02-<br>004 |
|                                                                                                                     | WTLMB-S-LL(A)                                | Class A, Character Matrix<br>Cell Modem Option<br>No-Charge Battery Duration Unknown<br>Solar Panel Tilt and/or Rotate Option | 10/1/2008<br>PCMS (2008)-4                                    |

\*No longer being manufactured.

Contact Person: Christopher Wilson, Office of Roadway Engineering  
614-387-4232; [Christopher.Wilson@dot.ohio.gov](mailto:Christopher.Wilson@dot.ohio.gov)